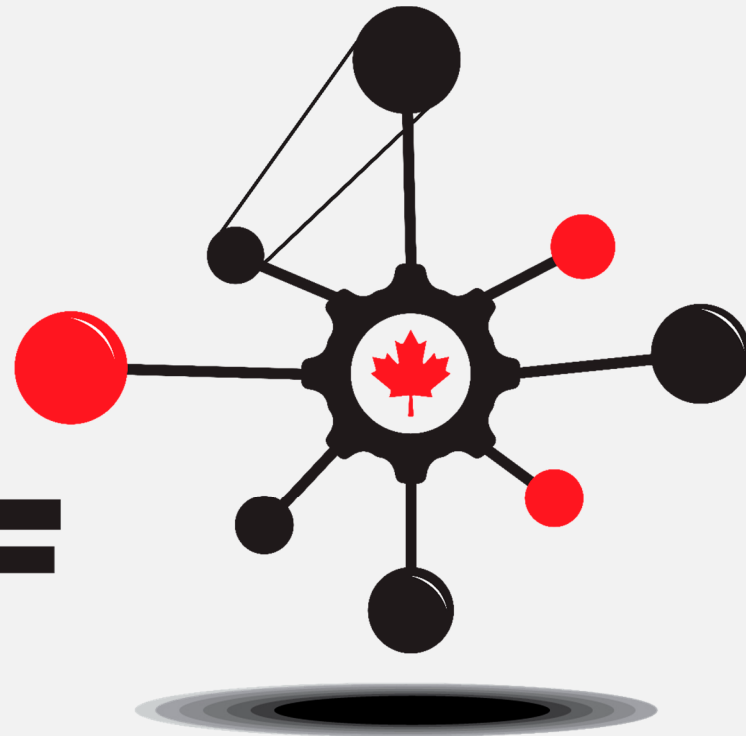
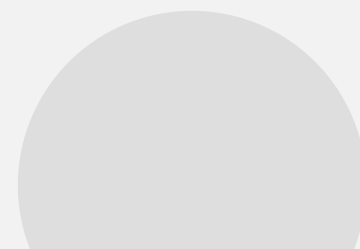
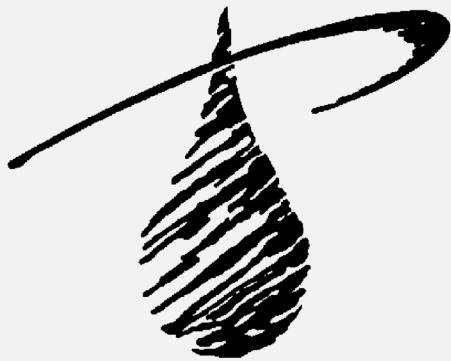


BASCF



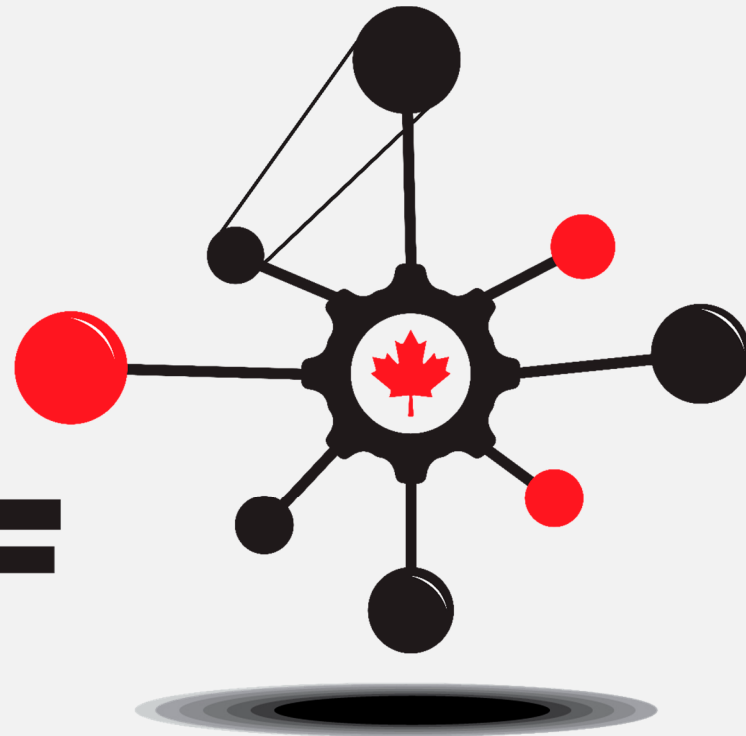


Welcome to the
2024
Bay Area Science & Engineering Fair
sponsored by



**Primary Fluid
Systems Inc.**

BASCF



Competition Host



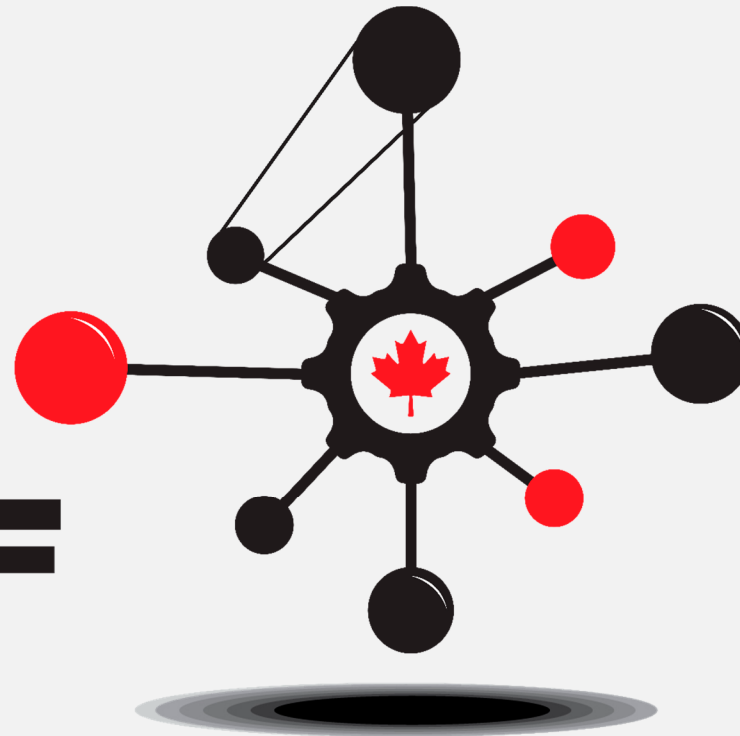
Hillfield Strathallan College
Learn with Joy. Live with Purpose.

Awards Ceremony Host

 **MOHAWK**

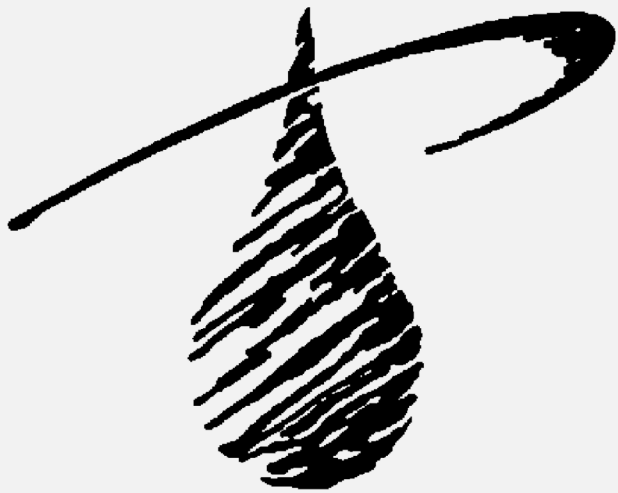
FUTURE READY

BASCF



Our
Sponsors





Primary Fluid Systems Inc.

Title
Sponsor





ArcelorMittal

Diamond
Sponsors





Platinum
Level
Sponsors





Hillfield Strathallan College
Learn with Joy. Live with Purpose.

Gold Level
Sponsors





Hamilton-Wentworth Catholic Schools
150 years of 'Believing, Achieving, Serving'



HWDSB
BE YOU. BE EXCELLENT.

Silver Level
Sponsors





Burlington *hydro* inc.



TAYLOR LEIBOW LLP
ACCOUNTANTS AND ADVISORS



Silver Level
Sponsors



CAREGO >
the innovators

myss
minding your systems



Bronze Level
Sponsors



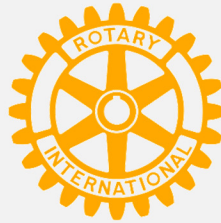


WALTERFEDY

Bronze Level
Sponsors



Rotary
Club of Ancaster A.M.



talkit.ca
No strings attached.

ECANH

**Electrical Contractors Association
of Niagara Hamilton**

Encouraging growth and development



Friends of
BASEF



Banting and Best (\$1000+)

Peter Child

Bondar (\$500+)

Steve & Cathy Hayman

Mantecon Partners

Susan & Peter Olynyk

Polanyi (\$200+)

Dan & Debbie Bowman

Renato & Enza DeTina

Nick & Helen Efthimiadis

Dr. Nicola Simmons

Paul & Pam Lakin

John & Eleanor O'Flynn

McGill (\$50+)

Linda Millar

In addition, BASEF has received donations from a number of individuals who wish to remain anonymous

Benefactors





Committee



Volunteers



Safety
Inspectors

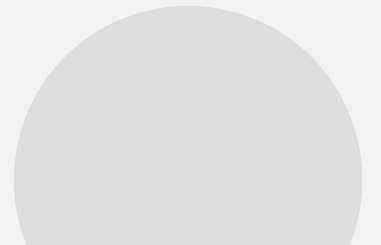


Registration

Our
Volunteers




Are you ready?



Your name
Address
City, Zip


0123

Date _____

BASEF 

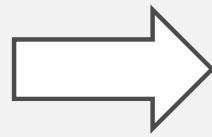
Pay to the
Order _____ \$

_____ Dollars

 Your bank
info

for _____

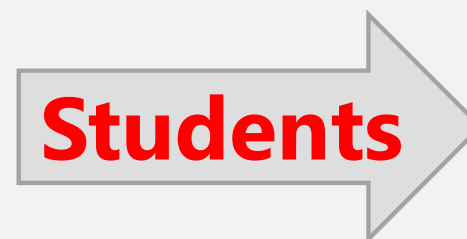
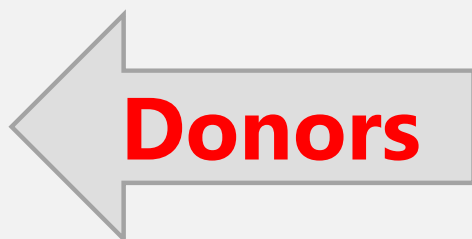
⋮ Routing # ⋮ ⋮ Account# ⋮ 0123



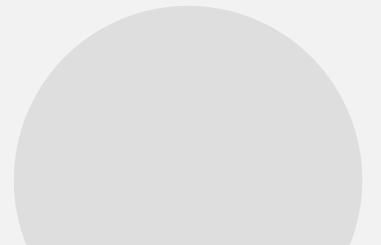
Deposit those cheques!

Instructions

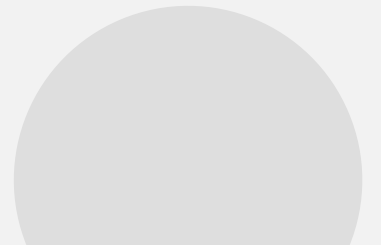
1. Donors/presenters make their way to the stage from the bottom left.
2. Students: When we call your name, proceed to the bottom right of the stage.



Special Awards



ArcelorMittal Dofasco Awards



ArcelorMittal Dofasco Central Trades & Services Department Award

William Xu

P13

Accessible microscopy! A cellphone microscope for
high-resolution, large FOV, and high-speed imaging

Dundas Valley Secondary School
Dundas



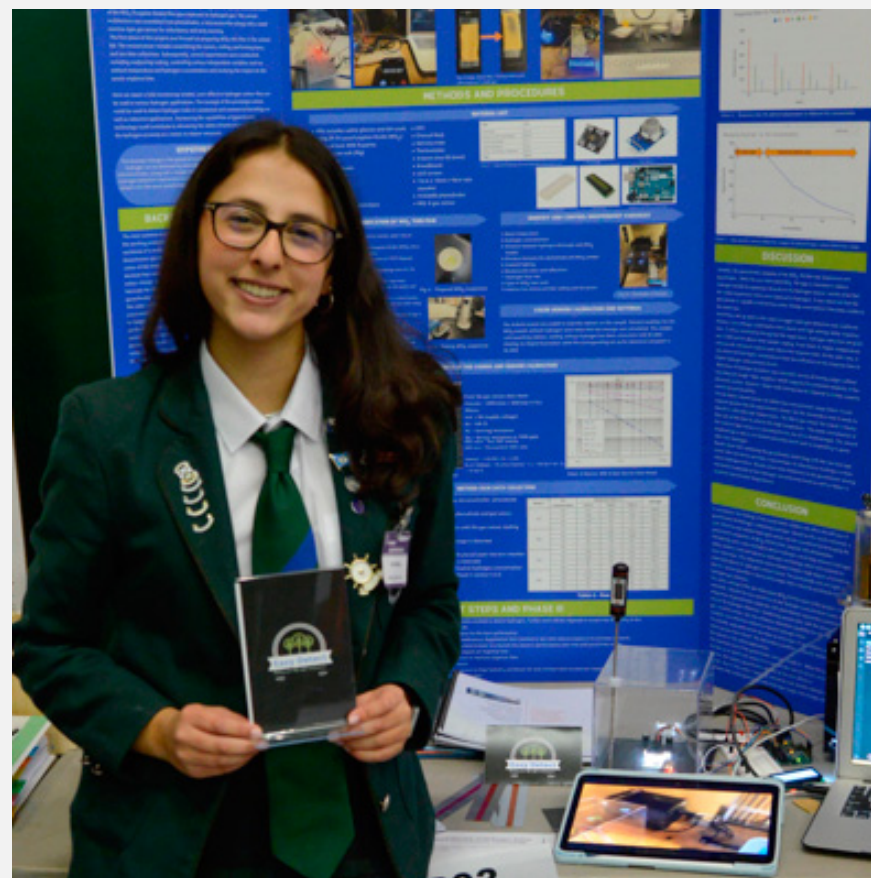
ArcelorMittal Dofasco Chemical Testing Award

Alia Wahban

P03

Redefining the Landscape of Hydrogen Safety using
Innovative Gasochromic Technology

Hillfield Strathallan College
Hamilton



ArcelorMittal Dofasco Commercial Department Award

Lily Song

P16
Talk to the Hand

North Park Collegiate and Vocational School
Brantford



ArcelorMittal Dofasco Engineering Award

Harnarain Bharj

J01
Coat Rack Heater

Rolling Meadows Public School
Burlington



ArcelorMittal Dofasco Environment Award

Anaum Farhan & Alishba Fayyaz

L15
Alumify

Rattlesnake Point Public School
Milton



ArcelorMittal Global R&D Hamilton Award for Outstanding Research

Luca Piccoli & Gabriel Di Nicola

C14

Water Is Not Enough; Maintaining Electrolyte Balance
During Illness

Our Lady of Peace
Stoney Creek



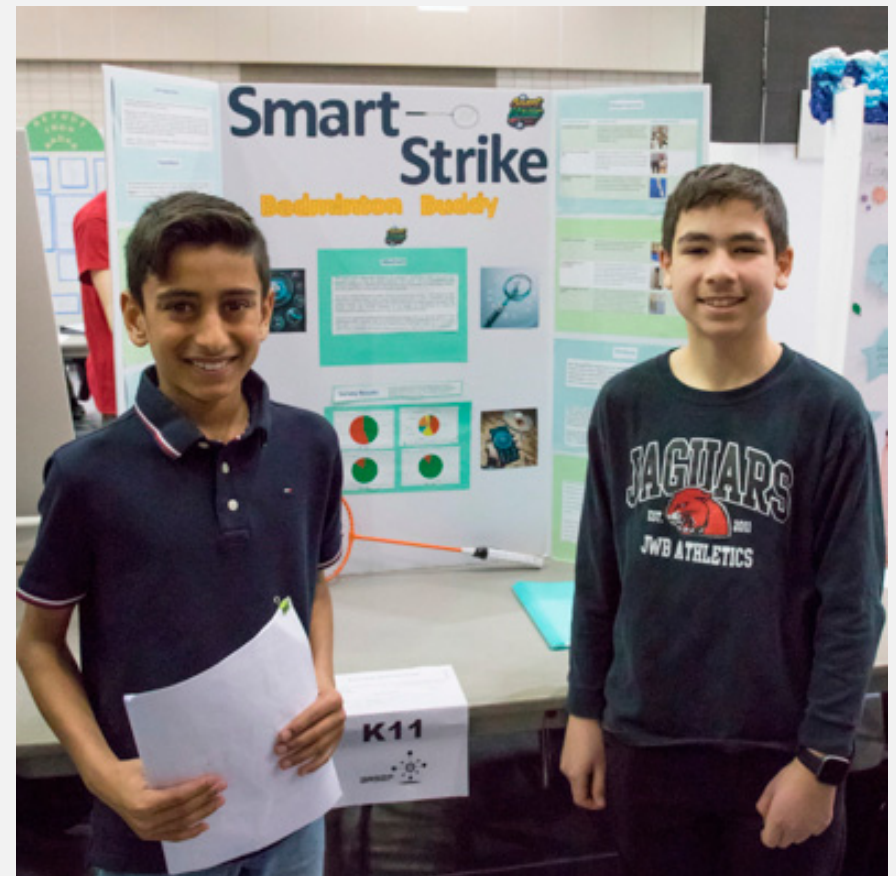
ArcelorMittal Global R&D Hamilton Award for Technology Application

Ege Alper & Ayaan Mawji

K11

Smart Strike Badminton Buddy

John William Boich Public School
Burlington



ArcelorMittal Dofasco Hot Mill Award

Rahul Rao & Vivaan Kar

F20

The Alginate Advantage

W. H. Morden Public School
Oakville



ArcelorMittal Dofasco Human
Resources Training & Development
Award

Luke Powell

N21

Flashify: An Innovative Flash Card Alternative

Aldershot High School
Burlington



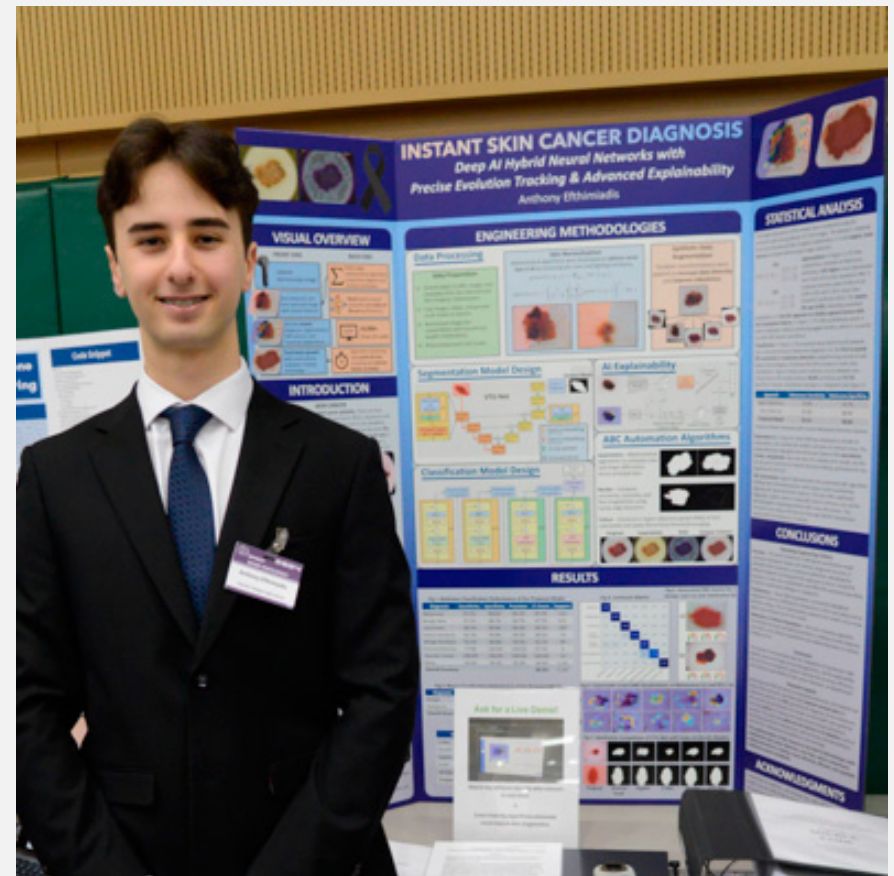
ArcelorMittal Dofasco Information Systems Award

Anthony Efthimiadis

P11

Instant Skin Cancer Diagnosis: AI Hybrid Neural
Networks with Precise Evolution Tracking

Oakville Trafalgar High School
Oakville



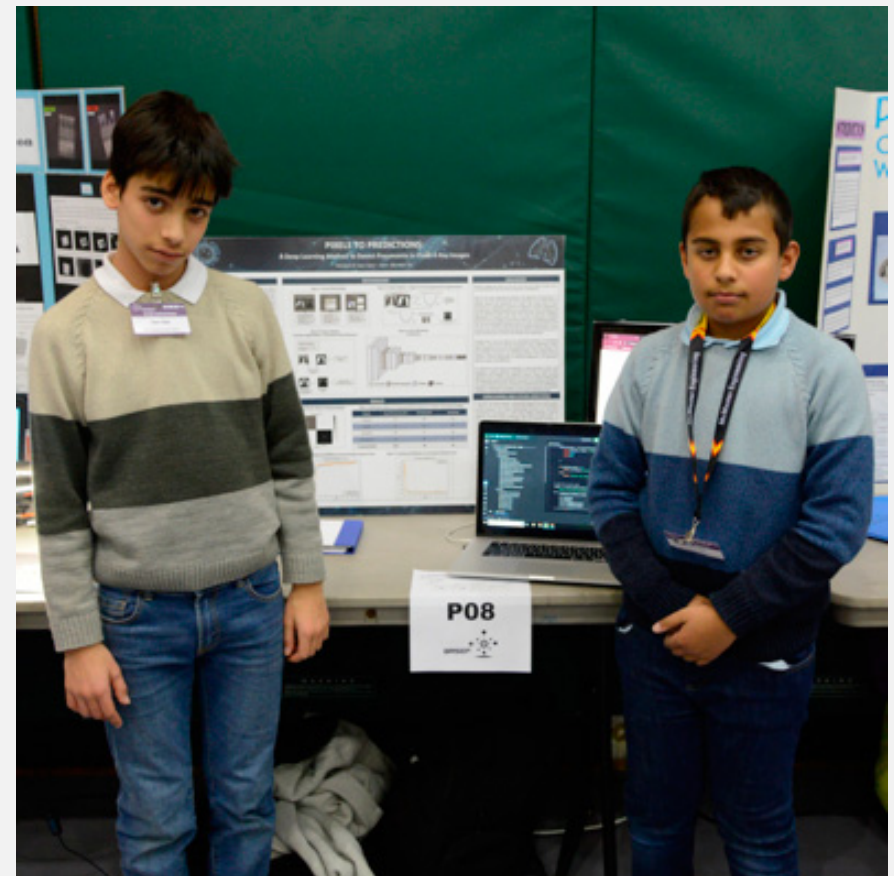
ArcelorMittal Dofasco Ironmaking Award

Daniyal Qazi & Zayn Qazi

P08

From Pixels to Predictions: A Deep Learning Method to Detect Pneumonia in Chest X-Ray Images

W. H. Morden Public School
Oakville



ArcelorMittal Dofasco Material
Handling & Logistics Department
Award

Kieran Blimkie

N16
Orebot Mk 1

Notre Dame Secondary School
Burlington



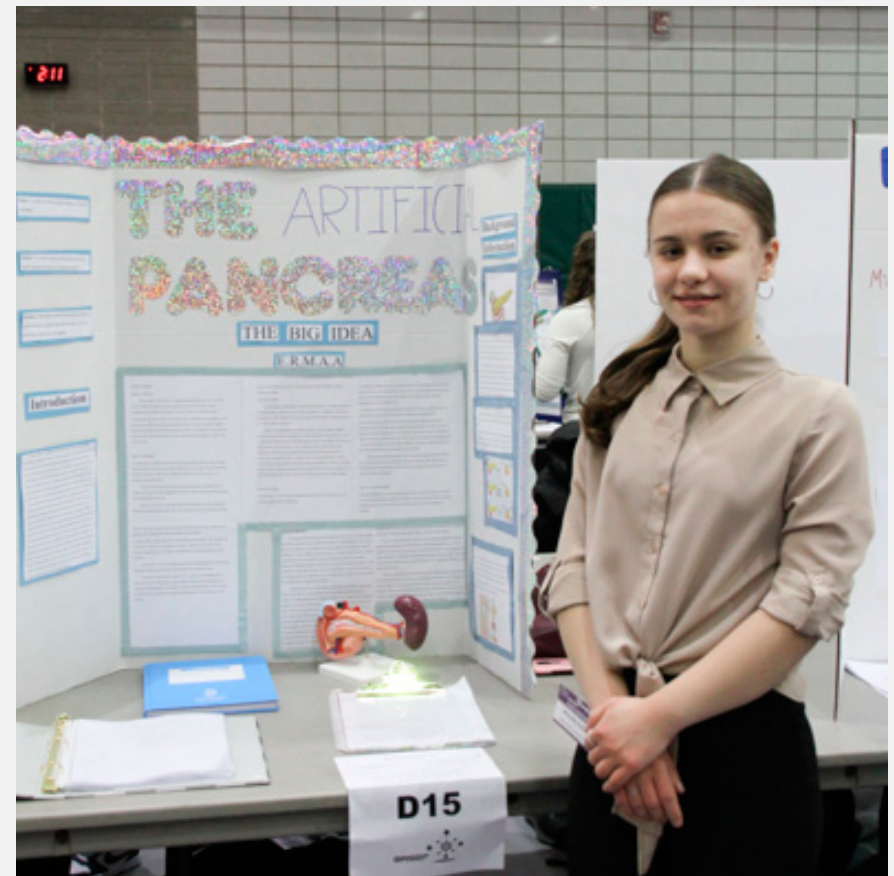
ArcelorMittal Dofasco Medical
Department Award

Weronika Szymala

D15

The Artificial Pancreas

Bishop Ryan Secondary School
Hamilton



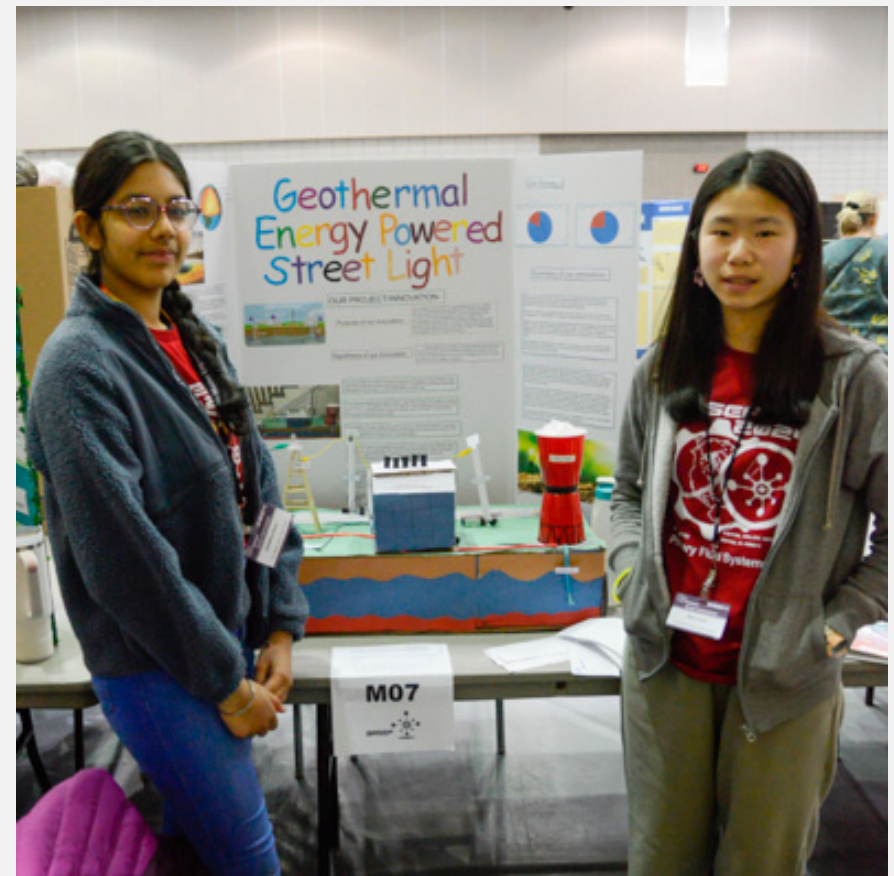
ArcelorMittal Dofasco Pickling and Cold Rolling Award

Rishibha Arora & Nina Chen

M07

Geothermal Energy Powered Street Light

John William Boich Public School
Burlington



ArcelorMittal Dofasco Process Automation Award

Anabella Kinsella & Joshua Mithun

K07
EZ Dispenser

St. Bernadette
Dundas



ArcelorMittal Dofasco Product Development Business Process Award

Maya Parachin

K16

The Frytastic Fry Fit

Oakville Christian School
Oakville



ArcelorMittal Dofasco Quality Systems Award

Zoya Waseem

K20

Pneumonia Detective: The Effectiveness of a
Pneumonia Detection ML VS. Medical Practitioners

Al-Falah Islamic School
Oakville



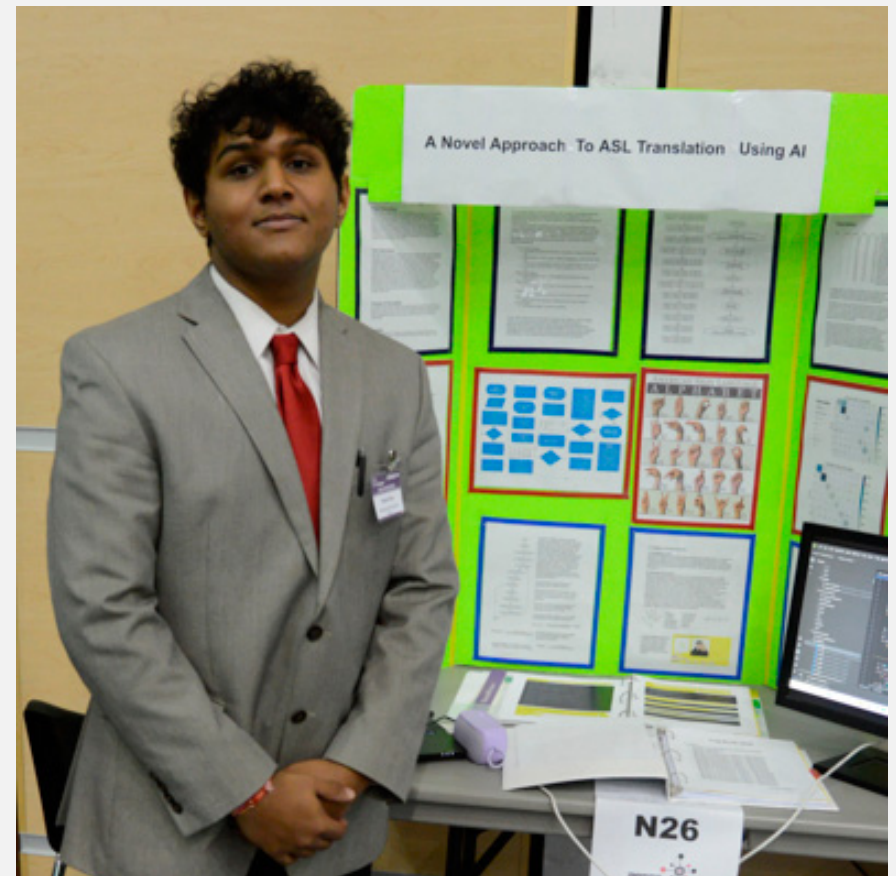
ArcelorMittal Dofasco Steelmaking Award

Vedant Sheel

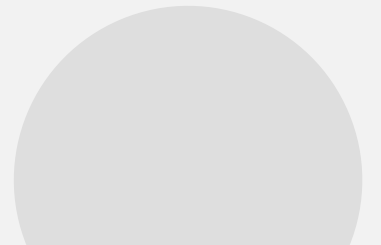
N26

A Novel Approach to ASL Translation Using AI

Waterdown District Secondary School
Waterdown



Artistically Inspired Display Awards



Artistically Inspired Display Award

Sameeha Salman

F12

When life dims your lights, just add a Conductor!

Al-Falah Islamic School
Oakville



Artistically Inspired Display Award

Hannel Ndibmun

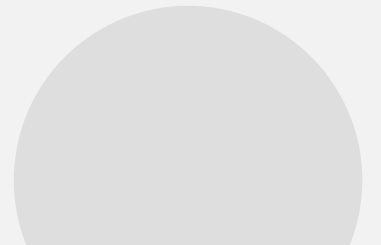
G04

Electrophoresis and Chromatography: Real Life Applications

Cathy Wever
Hamilton



Association for Iron & Steel Technology Northern Chapter Awards

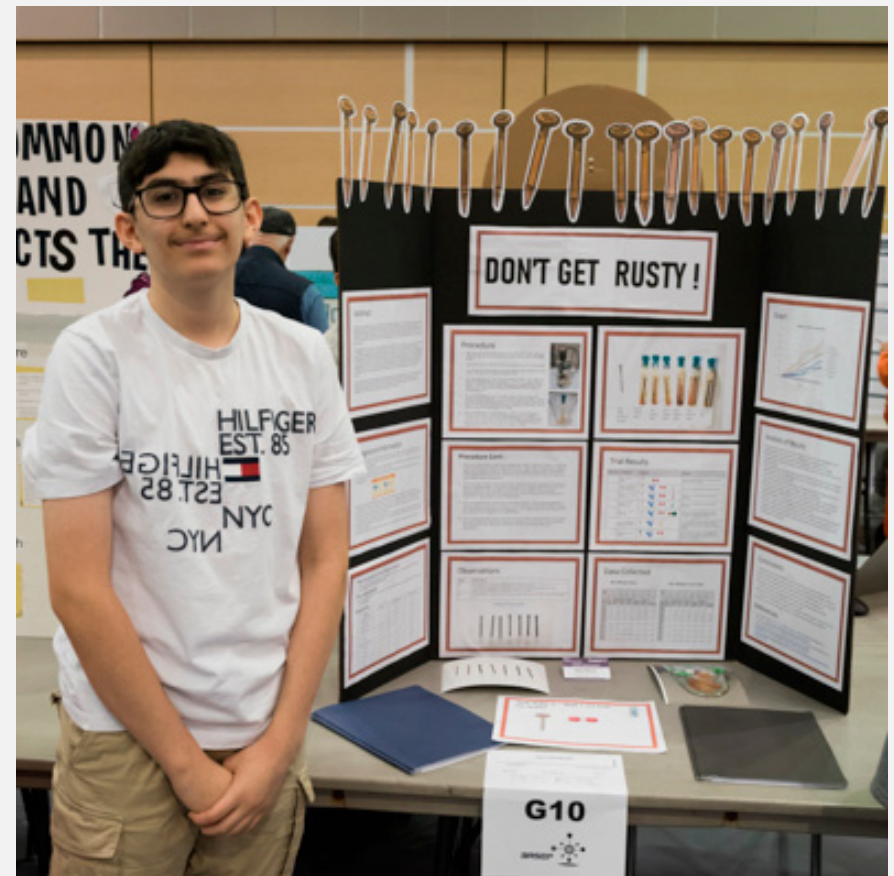


Association for Iron & Steel
Technology Northern Chapter Award
- Third

Rayan Mousa

G10
Don't Get Rusty!

Al-Falah Islamic School
Oakville



Association for Iron & Steel
Technology Northern Chapter Award
- Second

William Xu

P13

Accessible microscopy! A cellphone microscope for
high-resolution, large FOV, and high-speed imaging

Dundas Valley Secondary School
Dundas



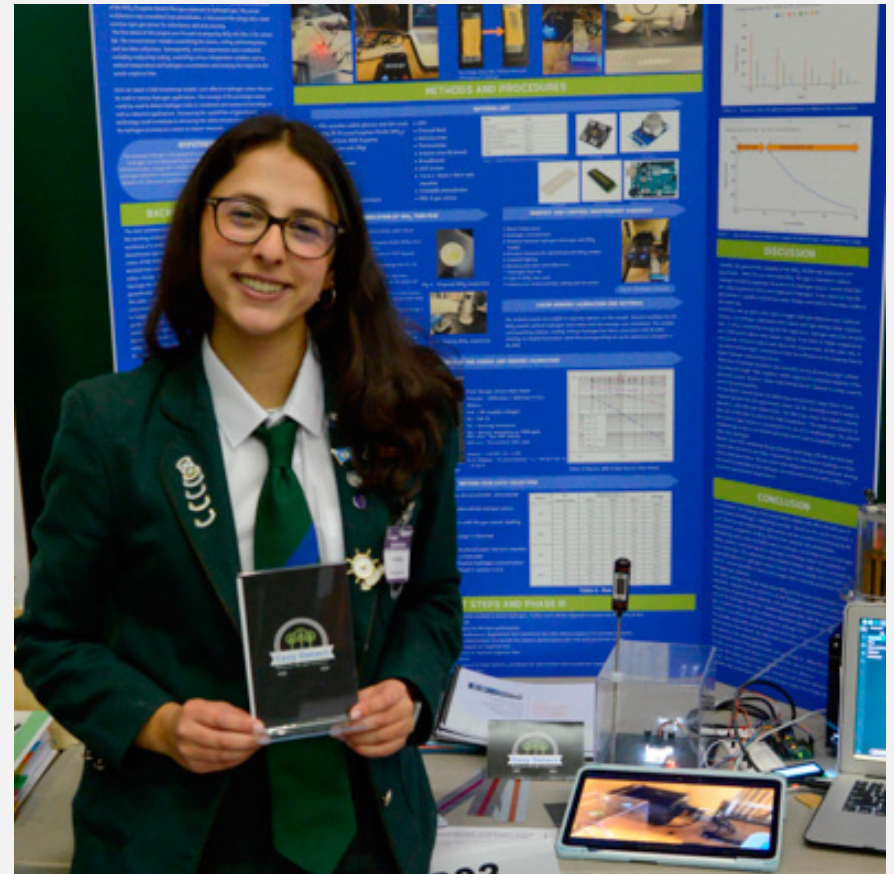
Association for Iron & Steel
Technology Northern Chapter Award
- First

Alia Wahban

P03

Redefining the Landscape of Hydrogen Safety using
Innovative Gasochromic Technology

Hillfield Strathallan College
Hamilton



Bay Area Health Trust Scholarship / Paul Lakin Life Sciences Award



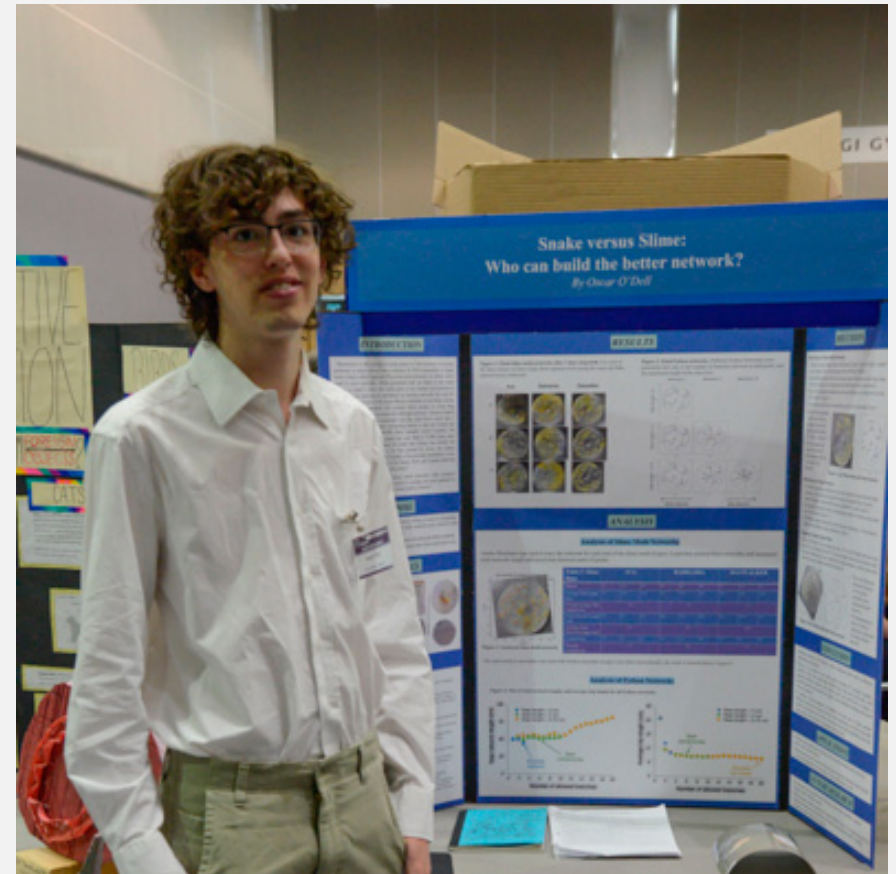
Bay Area Health Trust Scholarship, Paul Lakin Life Sciences Award

Oscar O'Dell

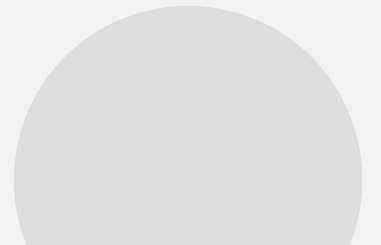
A19

Snake versus Slime: Who can build the better
network?

King's Christian Collegiate
Oakville



Dr. Laura Blew Social Sciences Awards



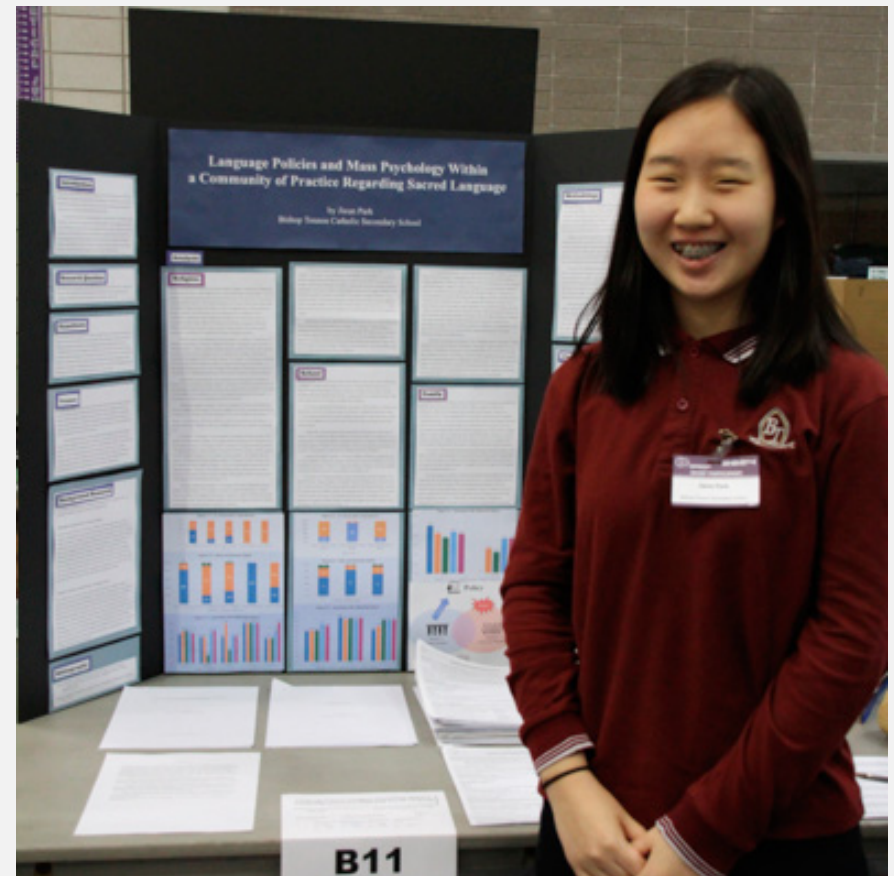
Dr. Laura Blew Social Sciences Award

Jieun Park

B11

Language Policies and Mass Psychology Within a
Community of Practice Regarding Sacred Language

Bishop Tonnos Secondary School
Ancaster



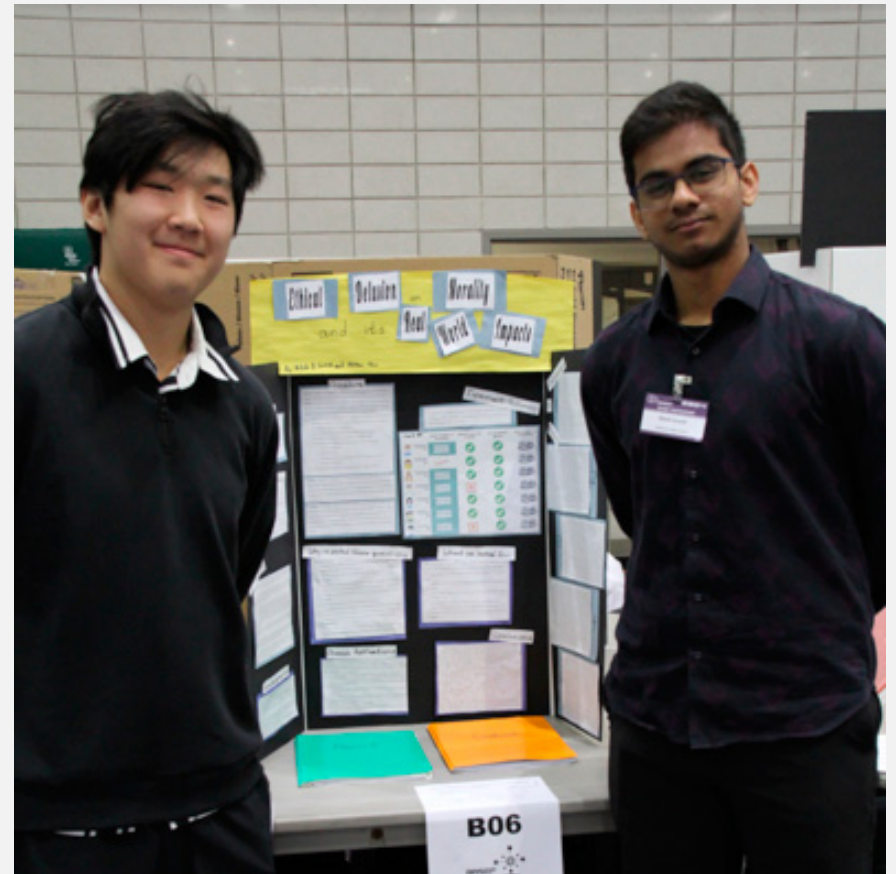
Dr. Laura Blew Social Sciences Award

Nitish Suresh & Nathan Hua

B06

Ethical Delusion on Morality and its Real World
Impacts

Aldershot High School
Burlington



Canadian Institute of Mining, Metallurgy and Petroleum (Hamilton Branch) Awards



Canadian Institute of Mining,
Metallurgy and Petroleum (Hamilton
Branch) Award

Anaum Farhan & Alishba Fayyaz

L15
Alumify

Rattlesnake Point Public School
Milton



Canadian Institute of Mining,
Metallurgy and Petroleum (Hamilton
Branch) Award

Kieran Blimkie

N16
Orebot Mk 1

Notre Dame Secondary School
Burlington



Canadian Meteorological and Oceanographic Society Awards



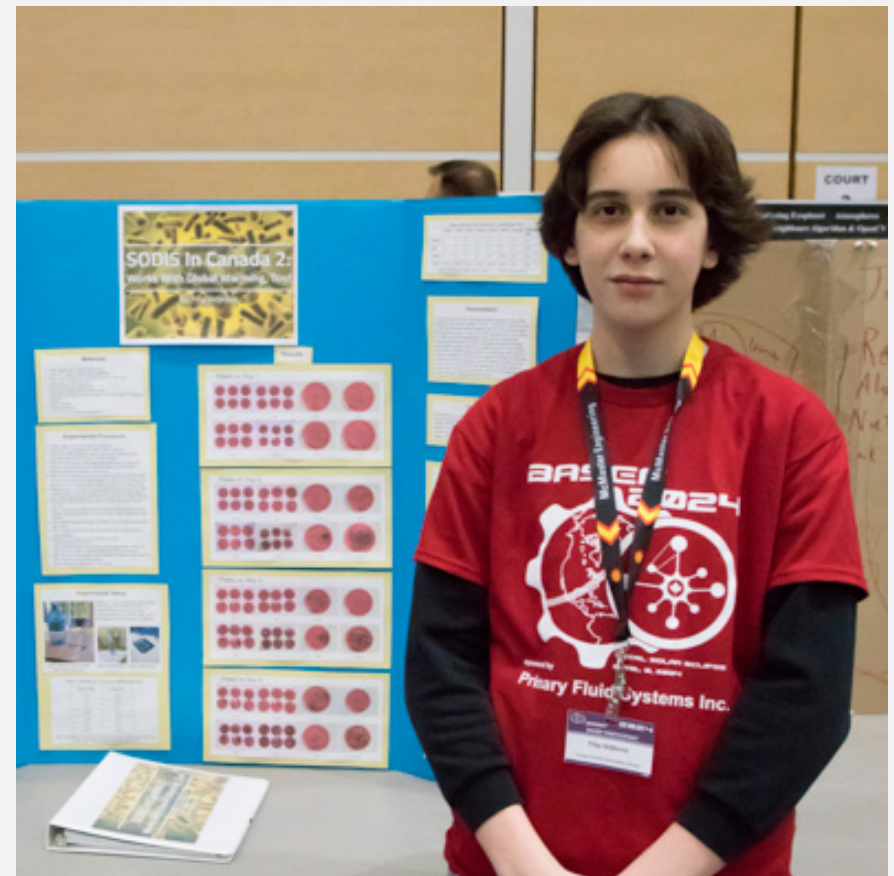
Canadian Meteorological and
Oceanographic Society (CMOS)
Award - Second

Filip Veljkovic

L20

SODIS in Canada 2 - Works With Global Warming,
too!

Corpus Christi Secondary School
Burlington



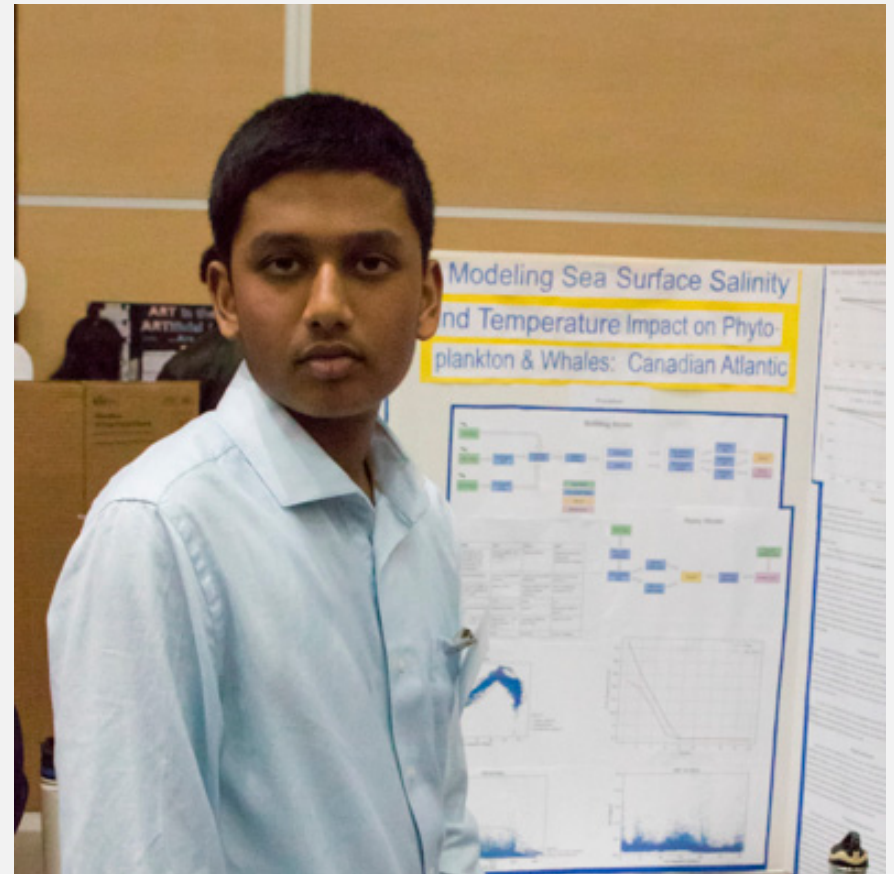
Canadian Meteorological and
Oceanographic Society (CMOS)
Award - First

Daksh Srivastava

L16

Modeling Sea Surface Salinity and Temperature
Impact on Phytoplankton & Whales: Canadian Atlantic

Pilgrim Wood Public School
Oakville



Canadian Nuclear Society (Golden Horseshoe Branch) Awards



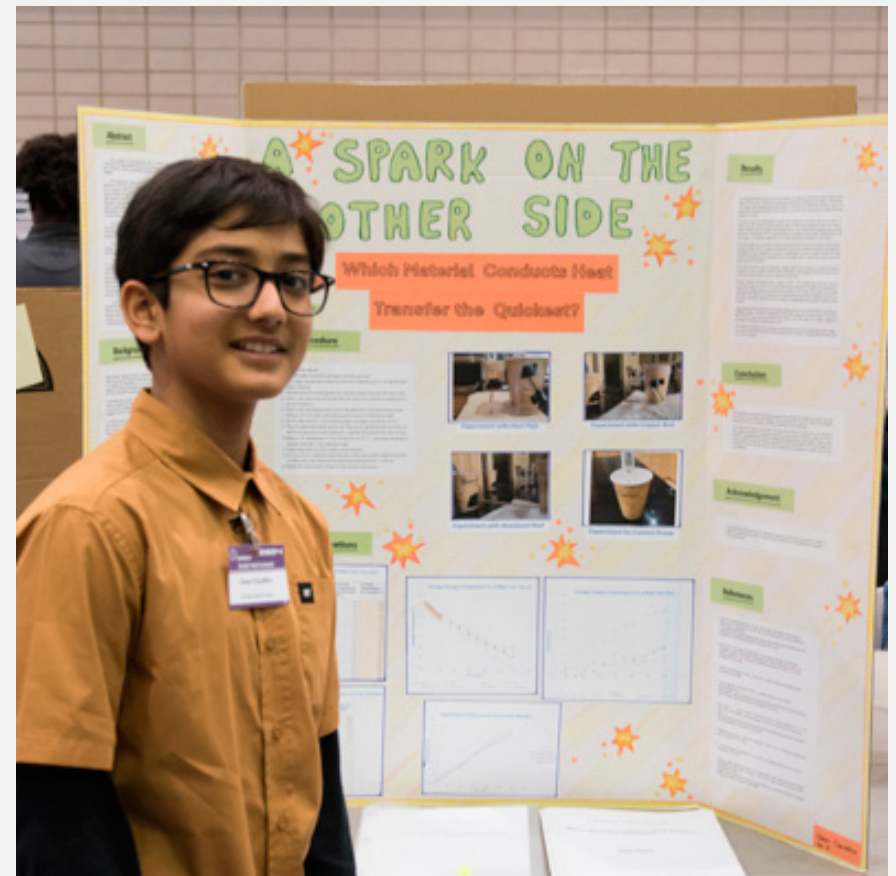
Canadian Nuclear Society (Golden Horseshoe Branch) Awards - Junior

Umar Chaudhry

F05

A SPARK ON THE OTHER SIDE: Which material conducts heat transfer the quickest?

Al-Falah Islamic School
Oakville



Canadian Nuclear Society (Golden Horseshoe Branch) Awards - Junior

Dithira Muthukumarana & Jared Smith

L13
CO2 Free Ethanol Powered Cars?

St. Matthew
Hamilton



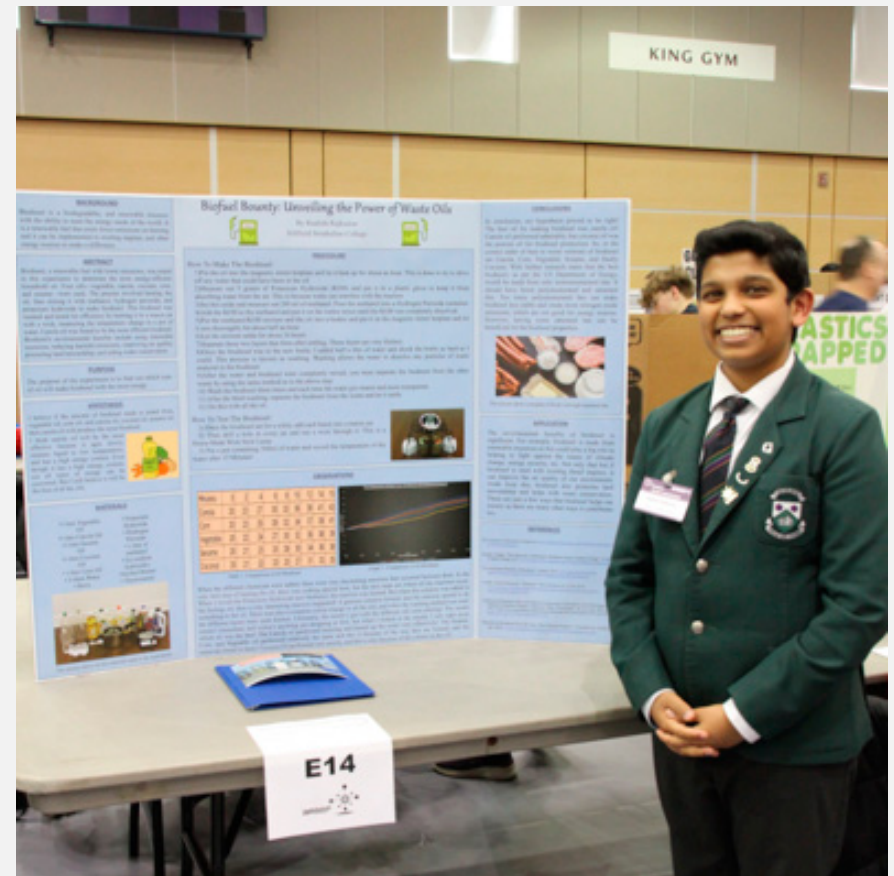
Canadian Nuclear Society (Golden Horseshoe Branch) Awards - Intermediate or Senior

Raahith Rajkumar

E14

Biofuel Bounty: Unveiling the Power of Waste Oils

Hillfield Strathallan College
Hamilton



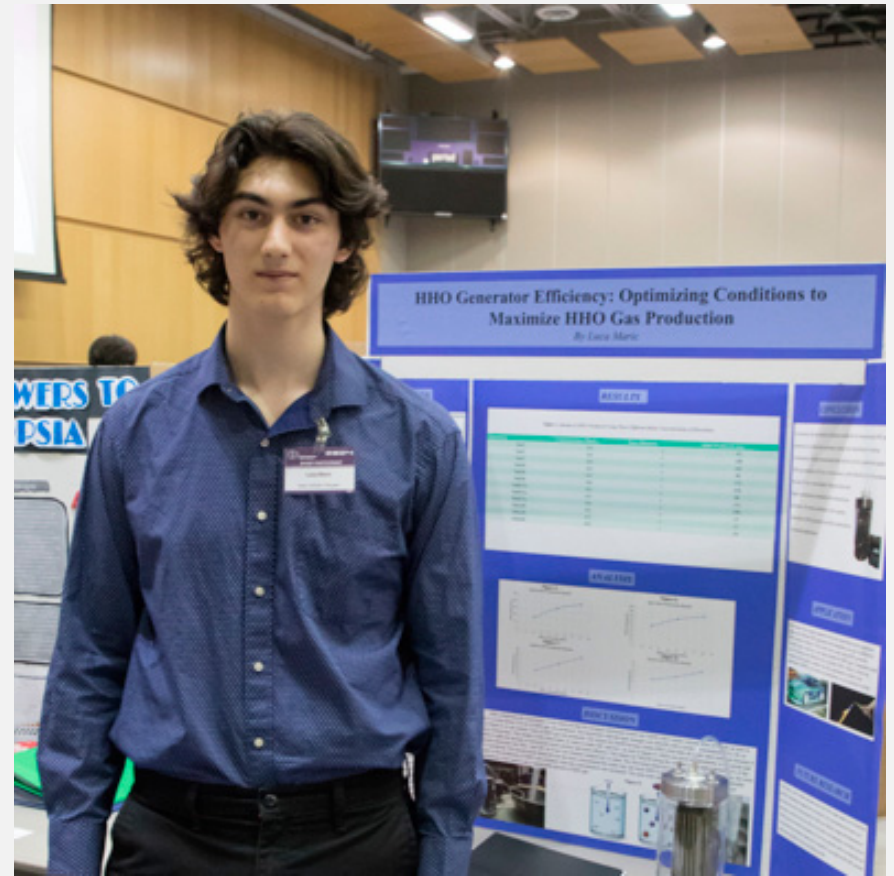
Canadian Nuclear Society (Golden
Horseshoe Branch) Awards-
Intermediate or Senior

Luca Maric

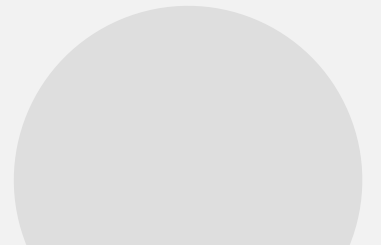
K05

HHO Generator Efficiency: Optimizing conditions to
maximize HHO gas

King's Christian Collegiate
Oakville



Doris Casey and Gwen Nicolls Disability Solutions Awards



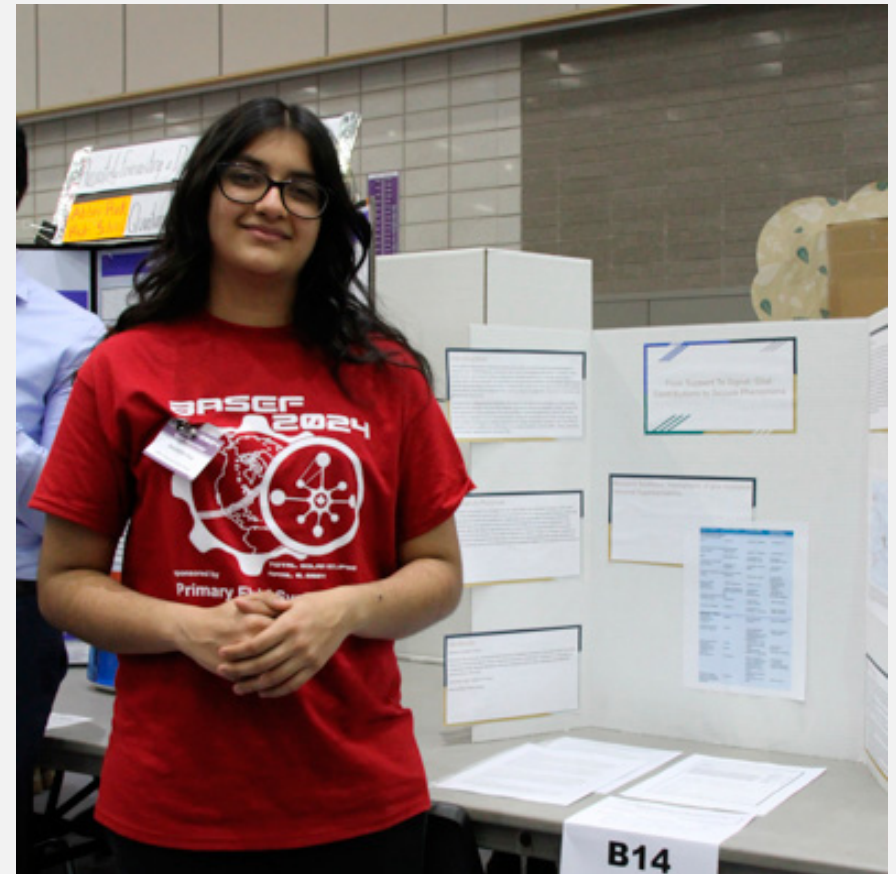
Doris Casey & Gwen Nicolls Disability Solutions Award

Shambhvi Dua

B14

Decoding Brainwaves: A Machine Learning Approach to Seizure Prediction

White Oaks Secondary School
Oakville



Doris Casey & Gwen Nicolls Disability Solutions Award

Nina Banerjee & Smira Belwalkar

J02

The E.A.B (Epilepsy Alert Bracelet)

John William Boich Public School
Burlington



Chemical Institute of Canada - Hamilton Section Awards

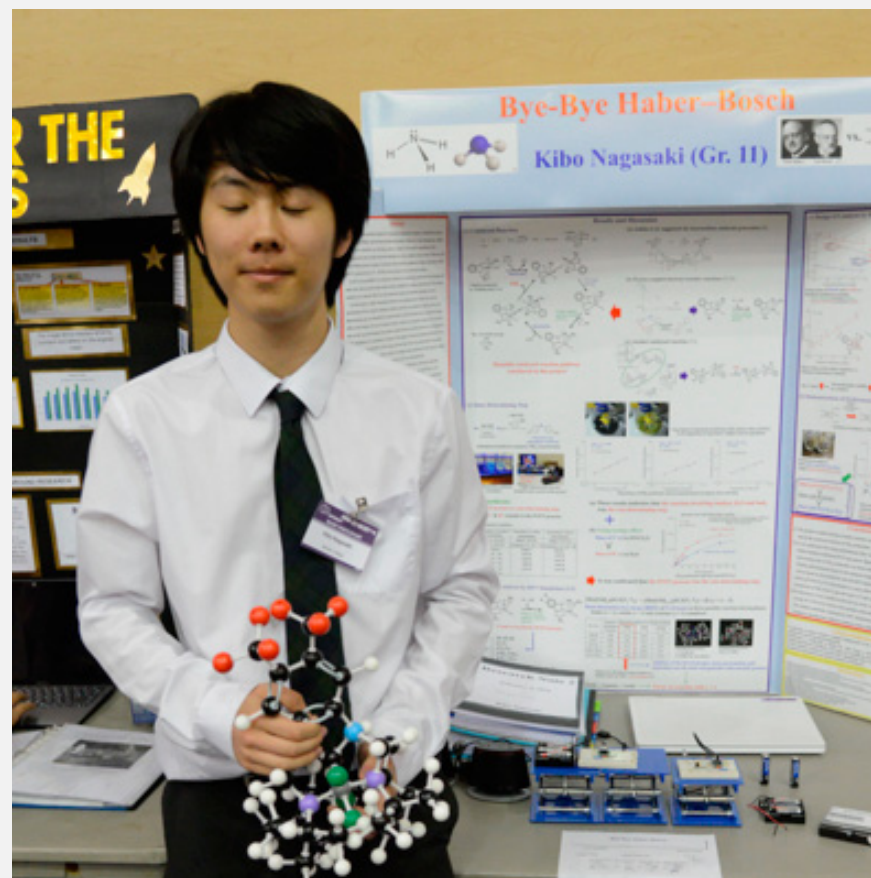


Chemical Institute of Canada
(Hamilton Section) Award

Kibo Nagasaki

N10
Bye-Bye Haber-Bosch

Mentor College
Mississauga



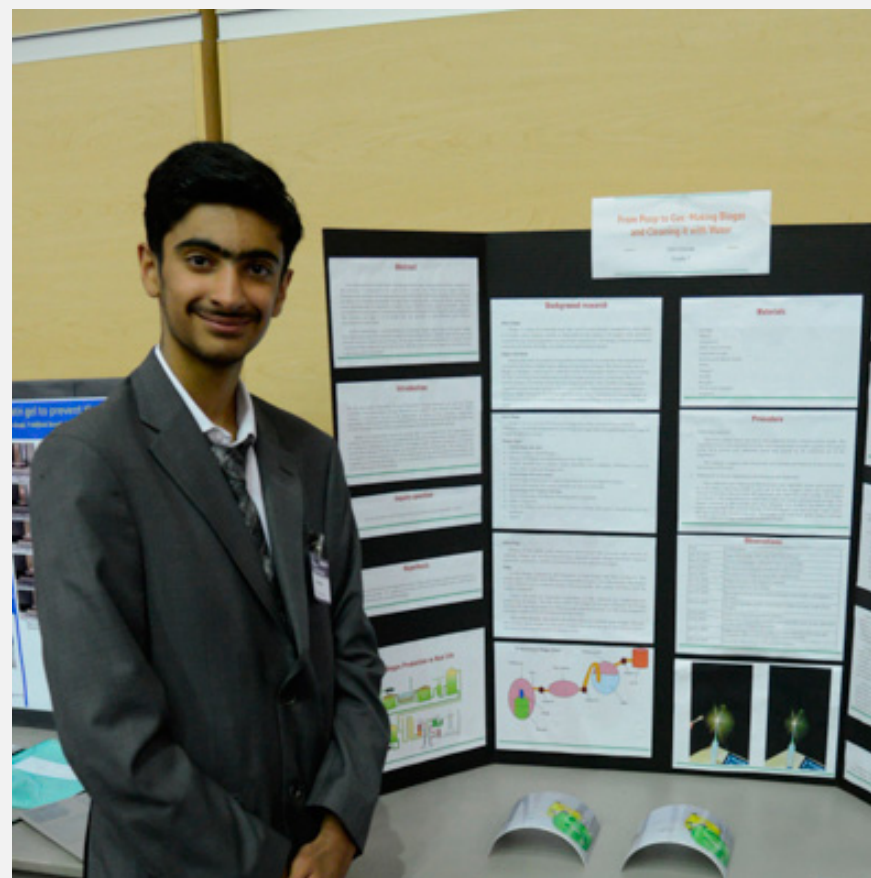
Chemical Institute of Canada (Hamilton Section) Award

Sahil Danda

N08

From Poop to Gas: Making Biogas and Cleaning it with
Water

W. H. Morden Public School
Oakville



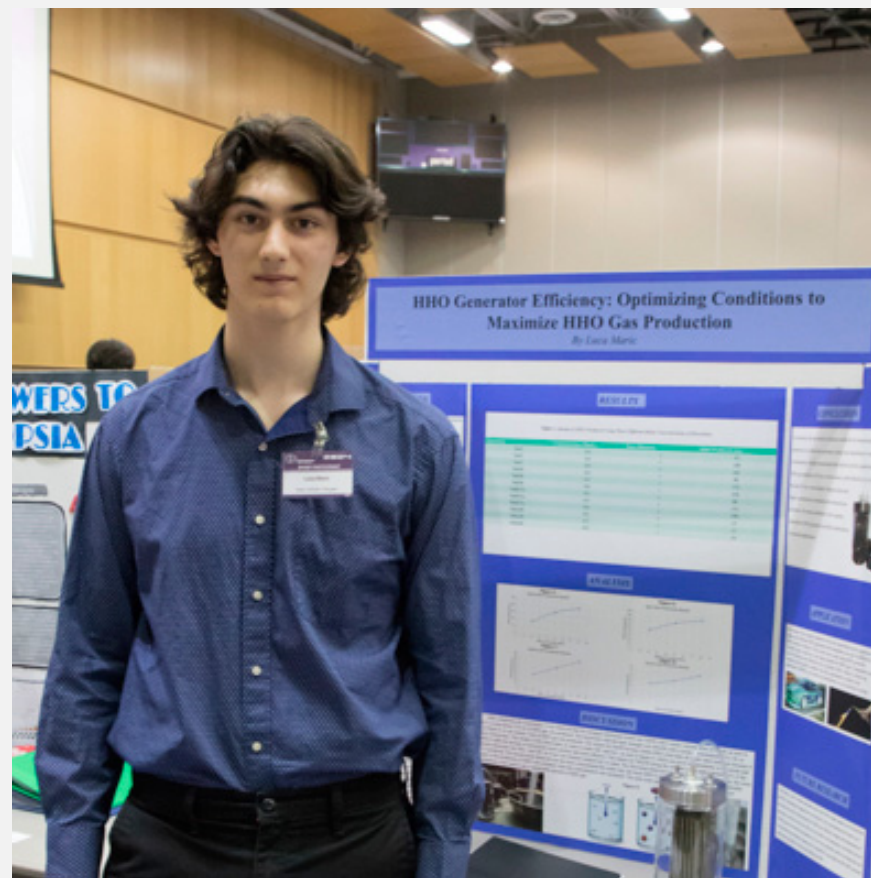
Chemical Institute of Canada (Hamilton Section) Award

Luca Maric

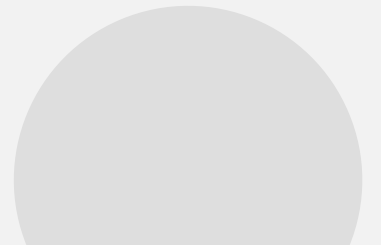
K05

HHO Generator Efficiency: Optimizing conditions to
maximize HHO gas

King's Christian Collegiate
Oakville



Conservation Halton Awards



Conservation Halton Environmental Sciences Award

Irene Su & Glareen Javidi

A14

Optimal Watering Patterns for Sunflower
Development

Munn's Public School
Oakville



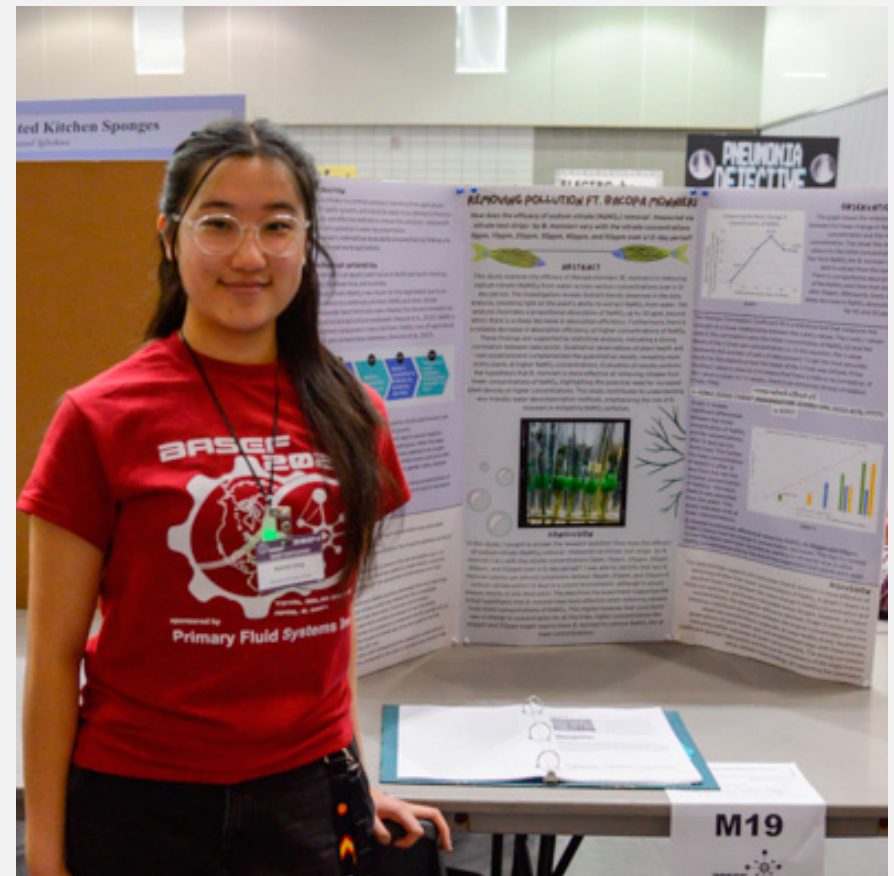
Conservation Halton Environmental Sciences Award

Bohmie Song

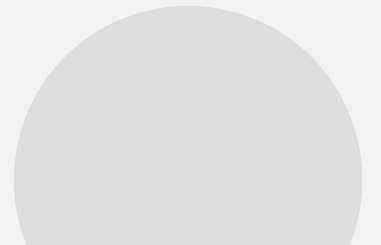
M19

Removing Pollution feat. Bacopa monnieri

Westdale Secondary School
Hamilton



Dillon Consulting Awards



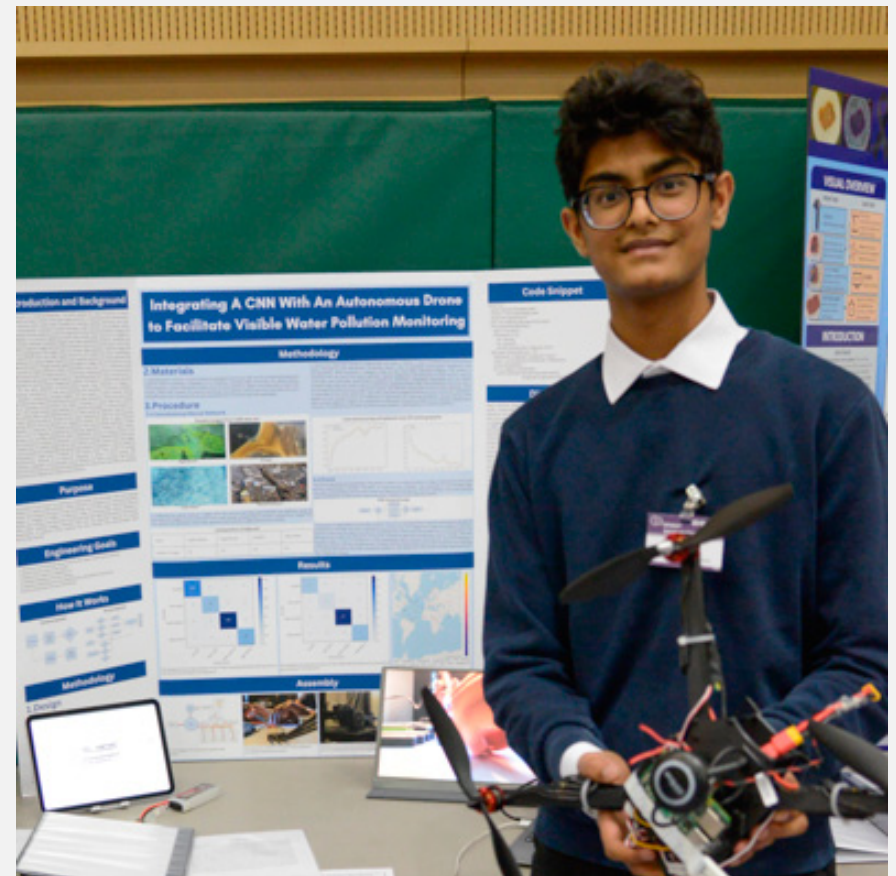
Dillon Consulting Science and Engineering Award

Anish Rathod

P10

Integrating A CNN With An Autonomous Drone To Facilitate Visible Water Pollution Monitoring

Burlington Central High School
Burlington



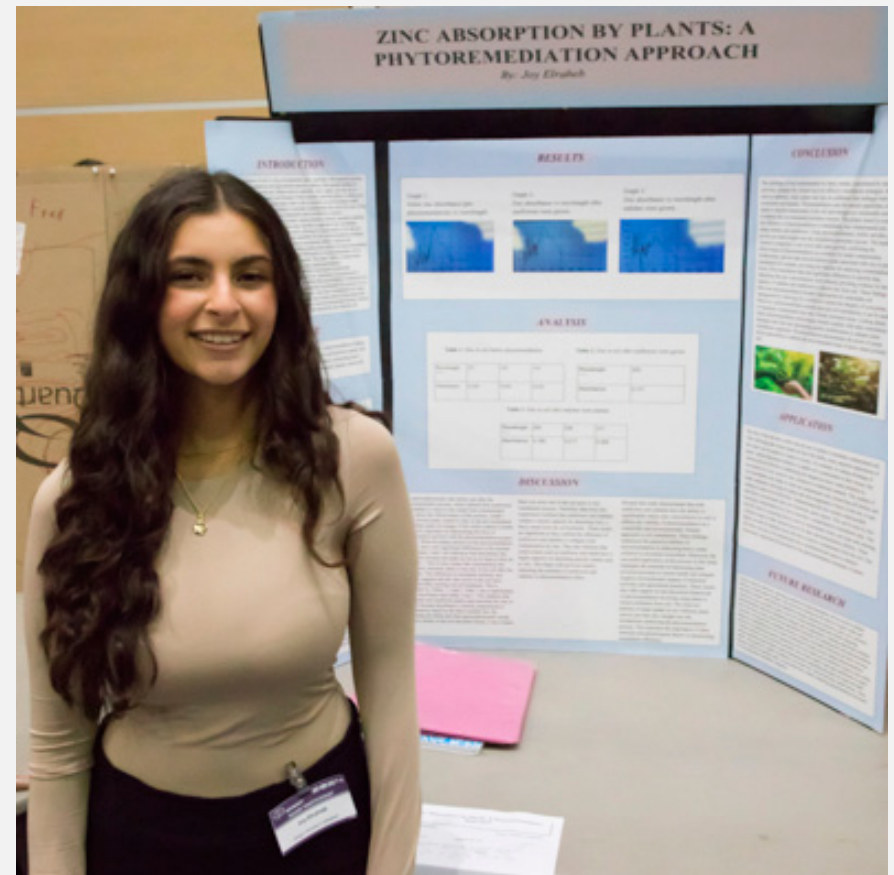
Dillon Consulting Biological Sciences Award

Joy Elraheb

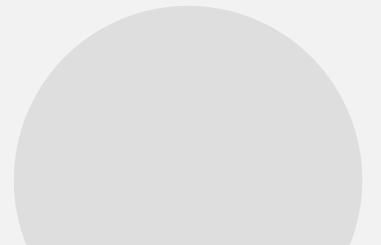
L18

Zinc Absorption by Plants: A Phytoremediation
Approach

King's Christian Collegiate
Oakville



Dr. M. Doyle Award



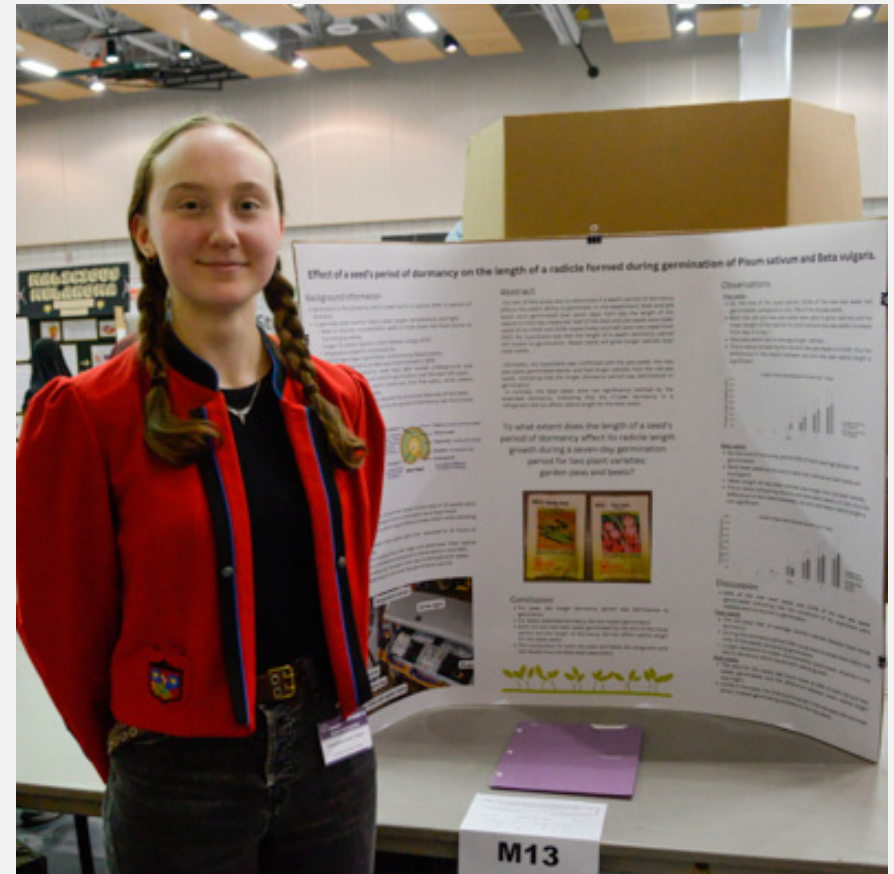
Dr. M. Doyle Biology Award

Artemisia Frolic-Smart

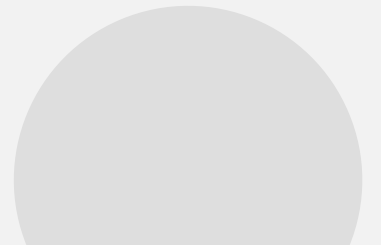
M13

Effect of a seed's period of dormancy on the length of a radicle formed during germination

Westdale Secondary School
Hamilton



Environmental Inspiration Award



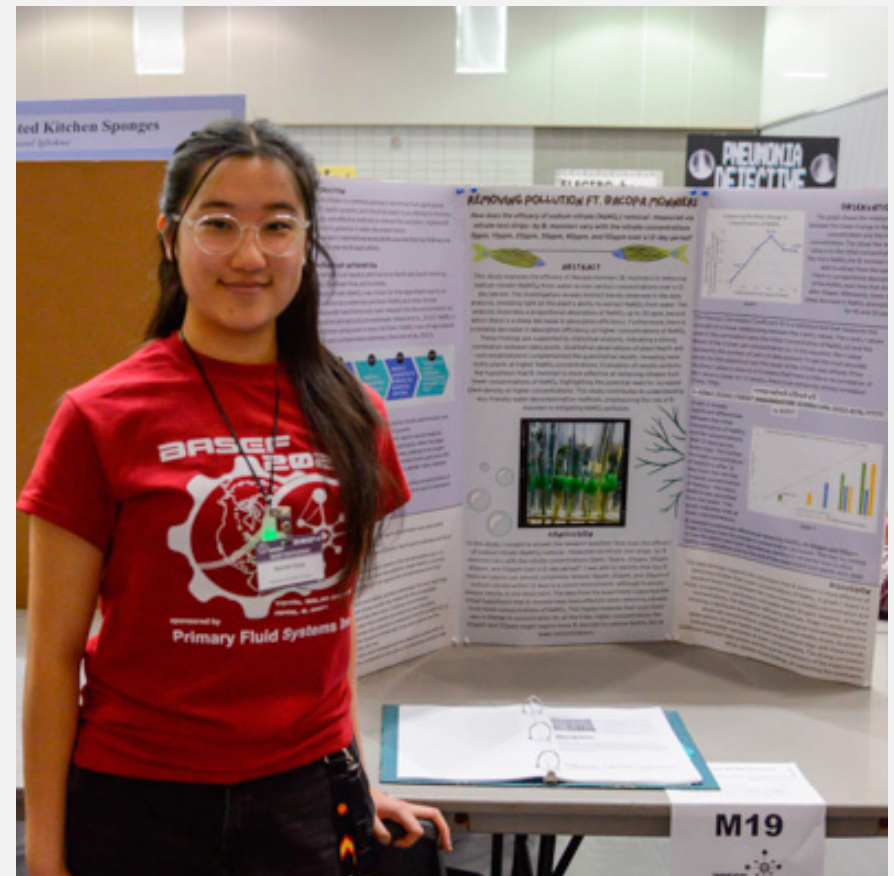
Environmental Inspiration Award

Bohmie Song

M19

Removing Pollution feat. Bacopa monnieri

Westdale Secondary School
Hamilton



Electrical Contractors Association of Niagara Hamilton Awards



Electrical Contractors Association of Niagara Hamilton Award

Obaida Abu dagga & Ahmed Saeed

G03
Homemade Tesla Coil

Ancaster Meadow
Ancaster



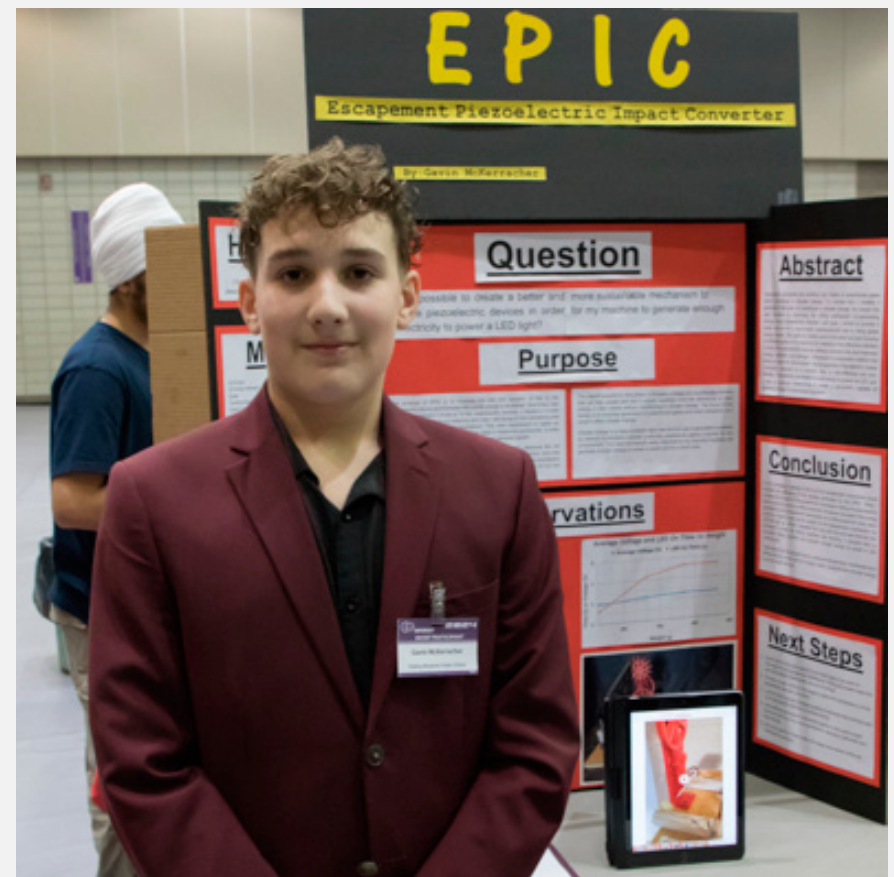
Electrical Contractors Association of Niagara Hamilton Award

Gavin McKerracher

K01

EPIC (Escapement Piezoelectric Impact Converter)

Rolling Meadows Public School
Burlington



Farncombe Family Digestive Health Research Awards



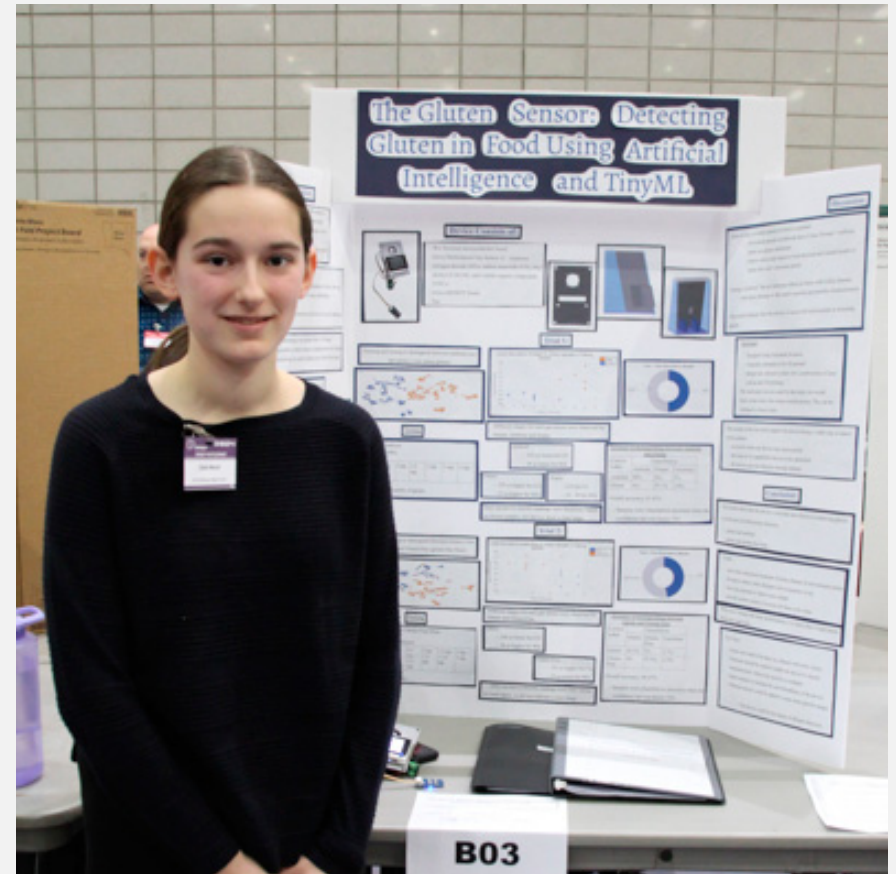
Farncombe Family Digestive Health Research Award

Claire Marsh

B03

The Gluten Sensor: Detecting Gluten in Food Using
Artificial Intelligence and TinyML

M. M. Robinson High School
Burlington



Farncombe Family Digestive Health Research Award

Sofia Mejia Perfiliev & Emily Berger

A10
Mall Bacteria

Charles R. Beaudoin Public School
Burlington



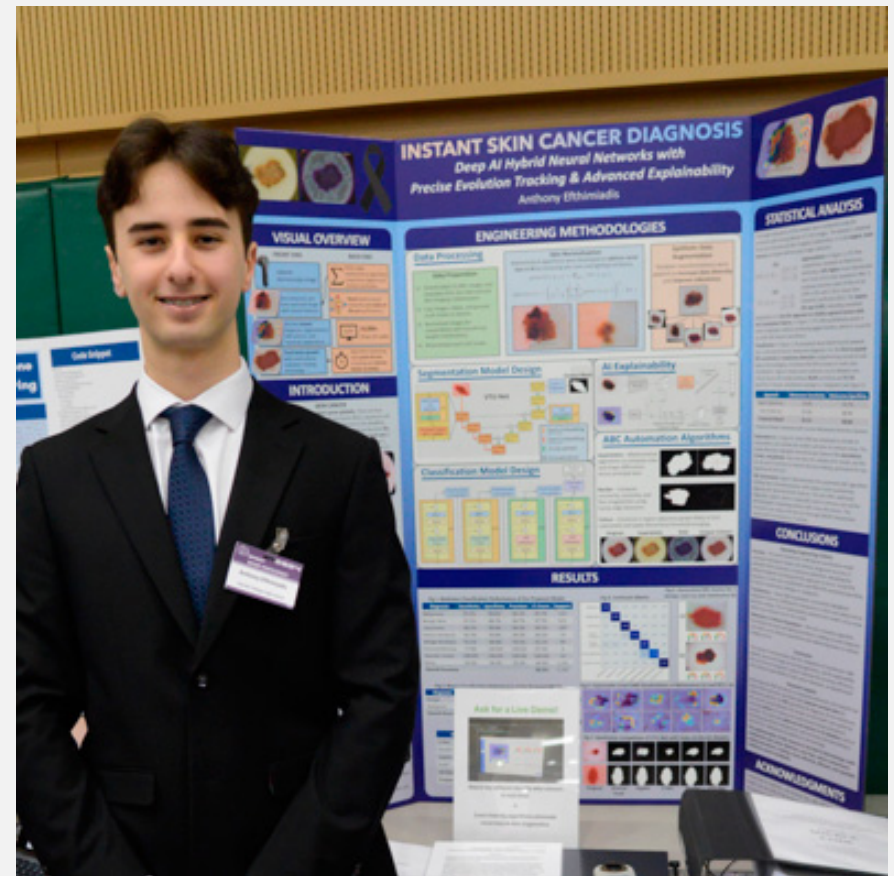
Farncombe Family Digestive Health Research Institute Grand Award

Anthony Efthimiadis

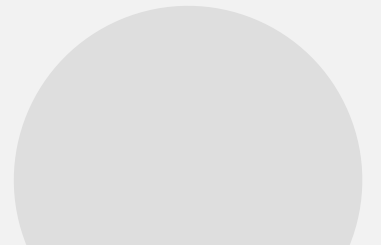
P11

Instant Skin Cancer Diagnosis: AI Hybrid Neural
Networks with Precise Evolution Tracking

Oakville Trafalgar High School
Oakville



Firestone Institute for Respiratory Health Award



Firestone Institute Respiratory Health Award

Kiera Mitchell

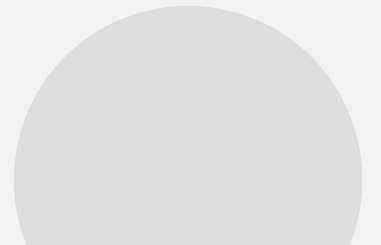
F09

Modelling Spread and Infection Risk for COVID-19 in Hallway Scenarios

Delhi District Secondary School
Delhi



Gowling WLG Innovation Awards

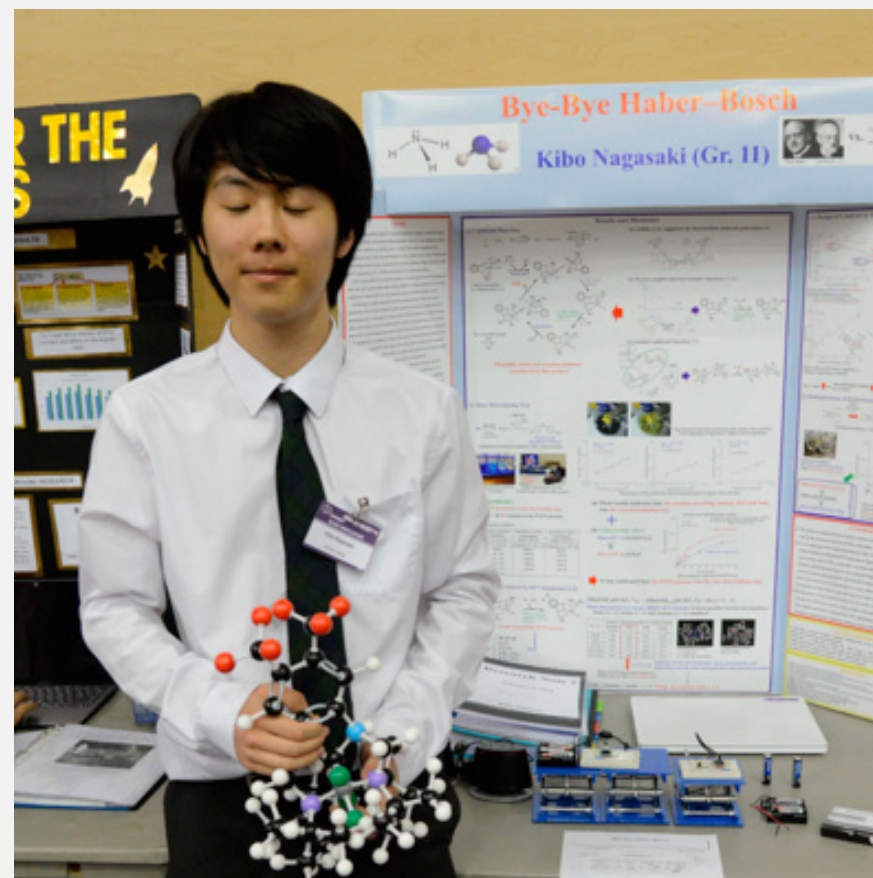


Gowlings Innovation Award - Honourable Mention

Kibo Nagasaki

N10
Bye-Bye Haber-Bosch

Mentor College
Mississauga



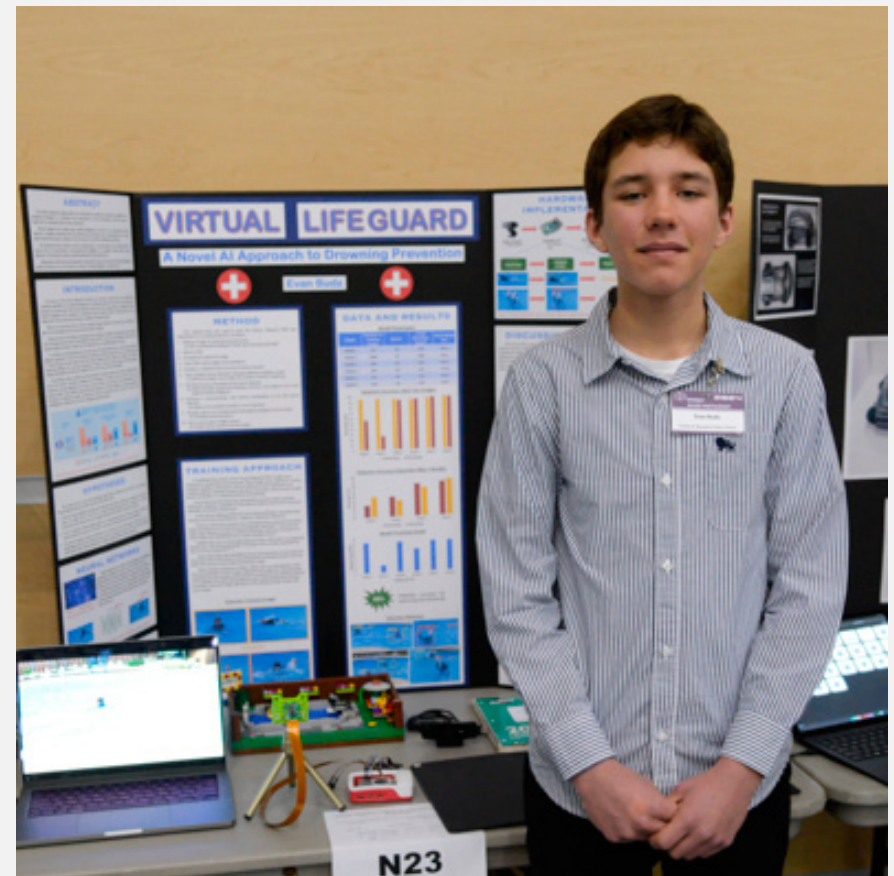
Gowling WLG Innovation Award - Runner-up

Evan Budz

N23

Virtual Lifeguard: A Novel AI Approach to Drowning
Prevention

Charles R. Beaudoin Public School
Burlington



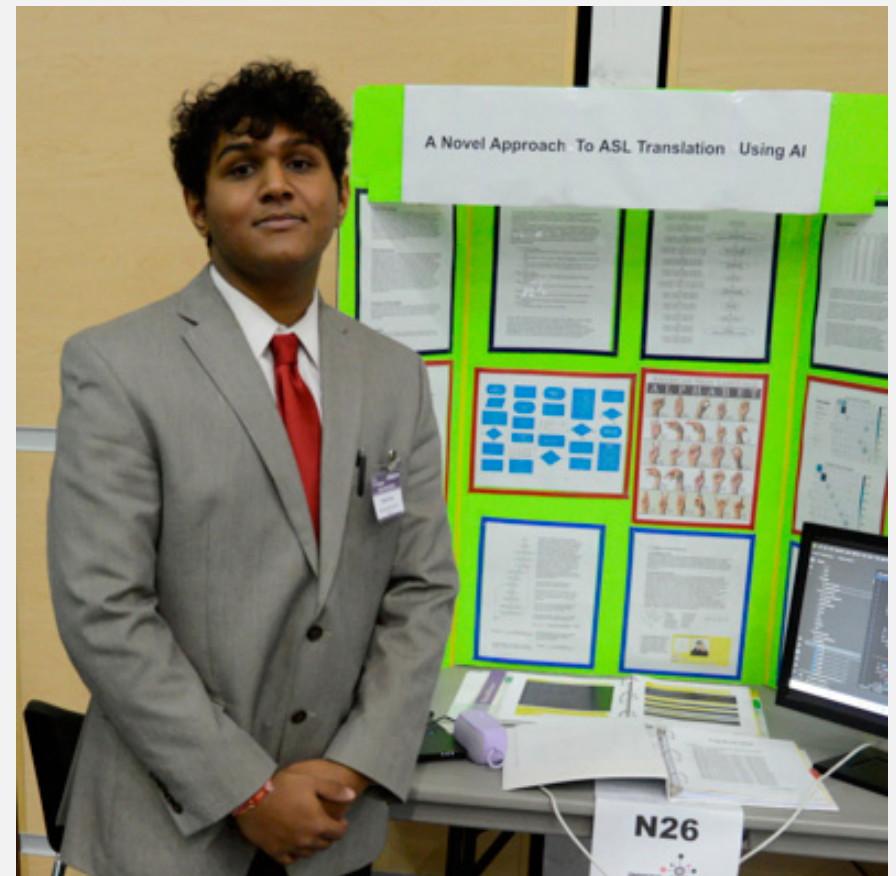
Gowling WLG Innovation Award - Grand Winner

Vedant Sheel

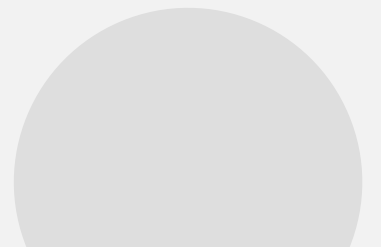
N26

A Novel Approach to ASL Translation Using AI

Waterdown District Secondary School
Waterdown



Hamilton Academy of Dentistry Awards



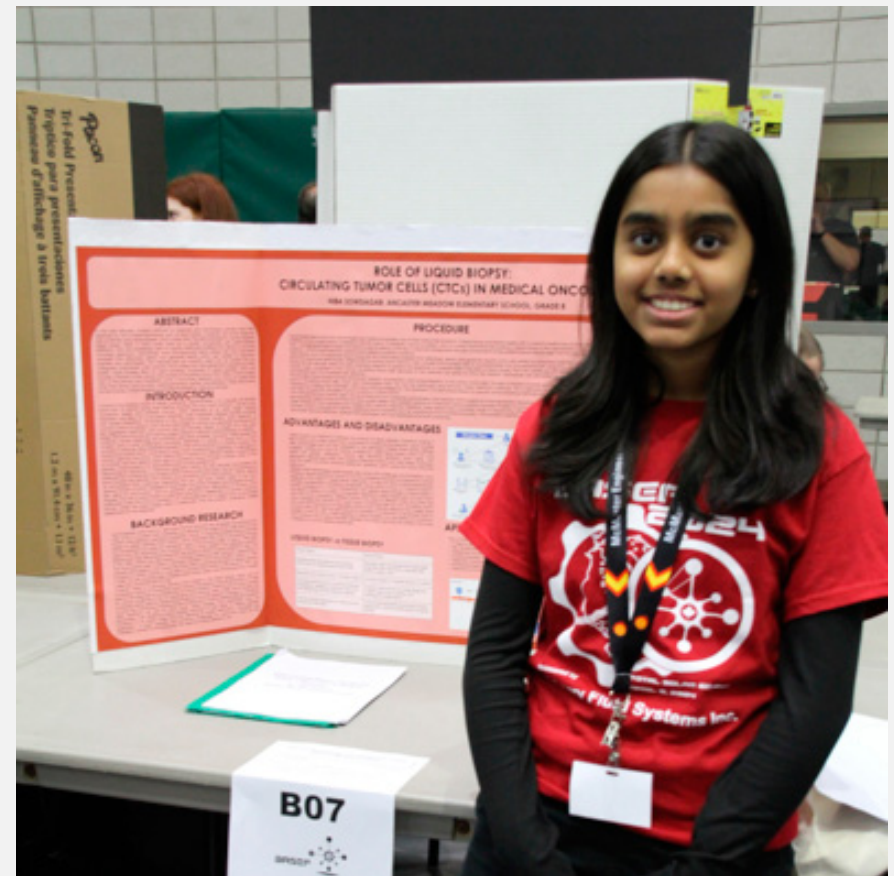
Hamilton Academy of Dentistry - Third

Hiba Sowdagar

B07

Role of Liquid Biopsy: Circulating Tumor Cells (CTCs)
in Medical Oncology

Ancaster Meadow
Hamilton



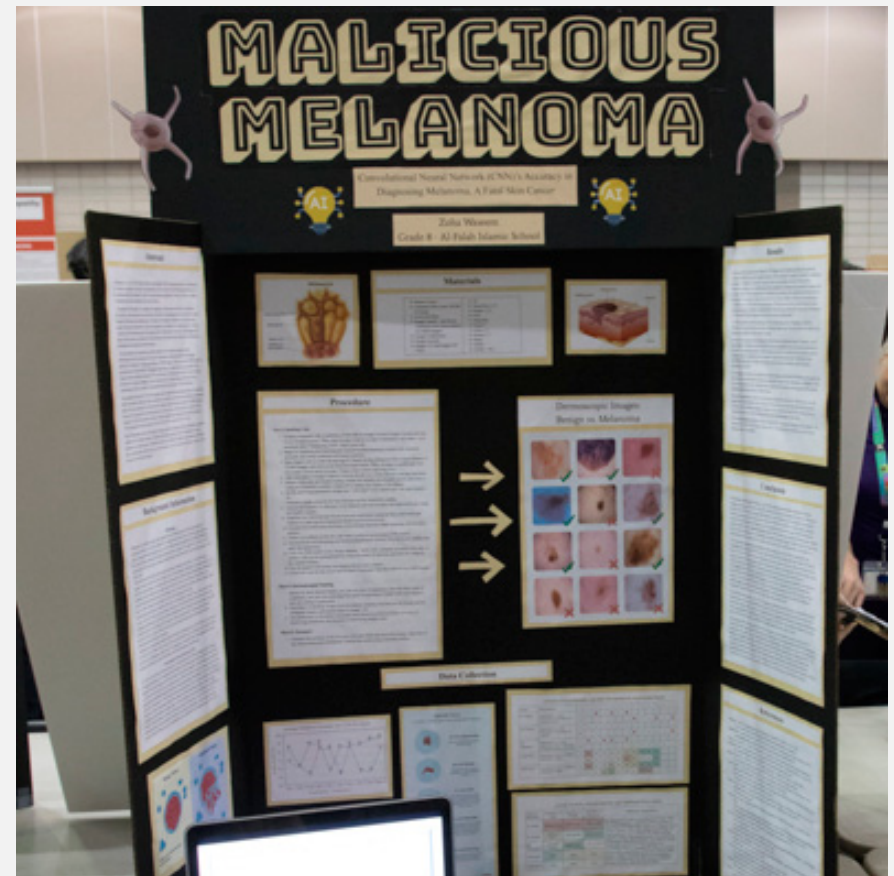
Hamilton Academy of Dentistry Award - Second

Zoha Waseem

K10

Malicious Melanoma: Convolutional Neural Network's
Accuracy in Diagnosing Malignant Melanoma

Al-Falah Islamic School
Oakville



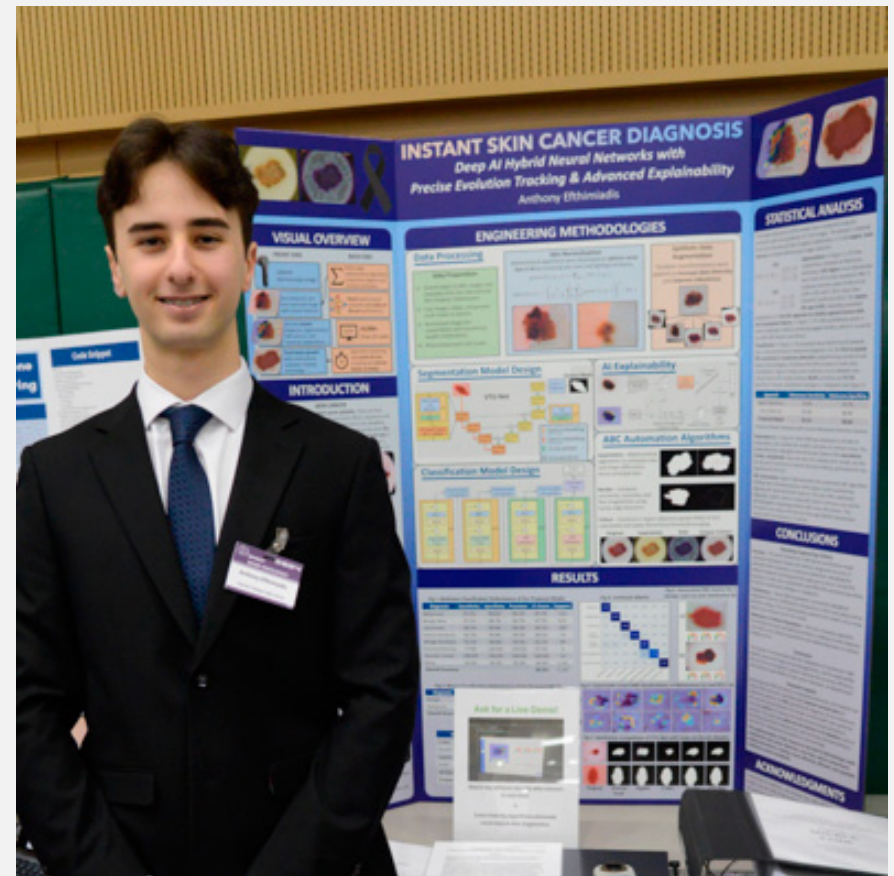
Hamilton Academy of Dentistry Award - First

Anthony Efthimiadis

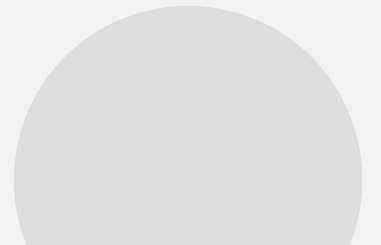
P11

Instant Skin Cancer Diagnosis: AI Hybrid Neural
Networks with Precise Evolution Tracking

Oakville Trafalgar High School
Oakville



Hamilton Amateur Astronomers Awards



James A. Winger Award- Junior

Fiza Mehfil

N20

Detecting and Analyzing Exoplanet Atmospheres
using K-Nearest-Neighbours Algorithm and OpenCV

Milton District High School
Milton



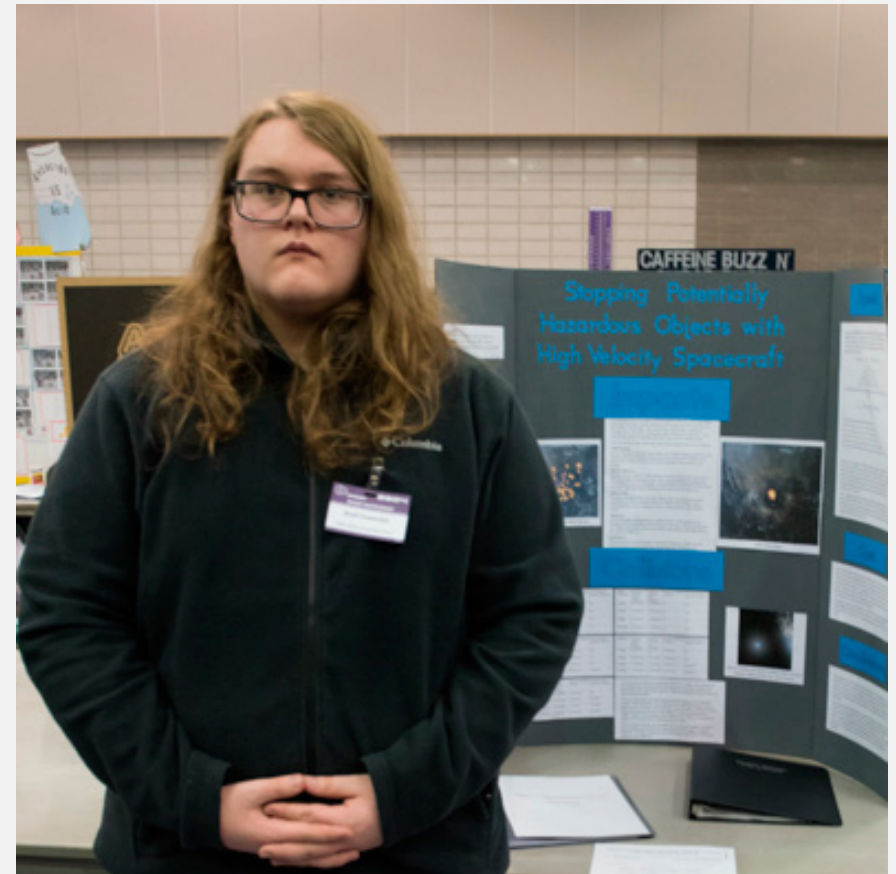
James A. Winger Award-- Senior

Brodi Ouwendyk

F11

Stopping Potentially Hazardous Objects in Space with
High-Velocity Spacecraft

Delhi District Secondary School
Delhi



Hamilton Association for the Advancement of Literature, Science & Art



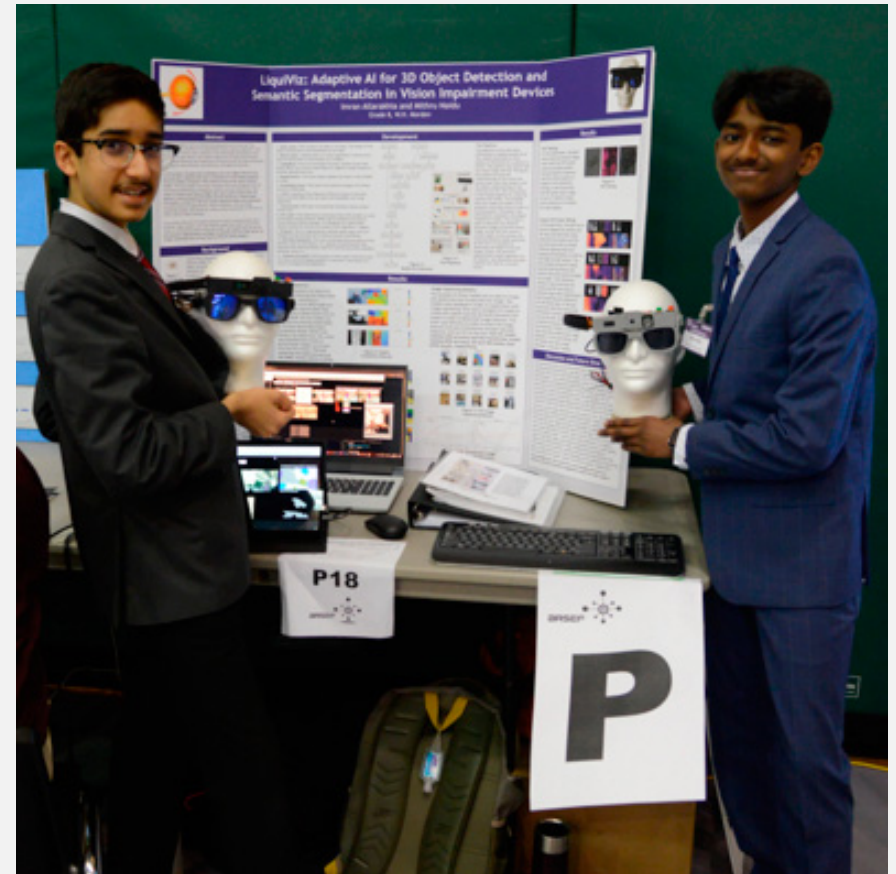
Hamilton Association da Vinci Award

Imran Allarakhia & Mithru Naidu

P18

LiquiViz: Adaptive AI for 3D Object Detection and Semantic Segmentation in Vision Impairment Devices

W. H. Morden Public School
Oakville



Hamilton Wentworth Occasional Teacher Awards



Hamilton Wentworth Occasional
Teachers - Environment & Education
Award

Katherine Prokipczuk

M14
Light Pollution

Ancaster Meadow
Ancaster



Hamilton Wentworth Occasional Teacher - Healthy Lifestyles Award

Luca Piccoli & Gabriel Di Nicola

C14

Water Is Not Enough; Maintaining Electrolyte Balance
During Illness

Our Lady of Peace
Stoney Creek



Hamilton Wentworth Occasional Teacher - Presentation & Aesthetics Award

Rachael Orphanos & Madelyn Stokes

A20

Destructive Digestion: Foreign Objects in our Pets
Digestive Tract

Hawthorne Village Public School
Milton



Harrison Family Chemistry Award



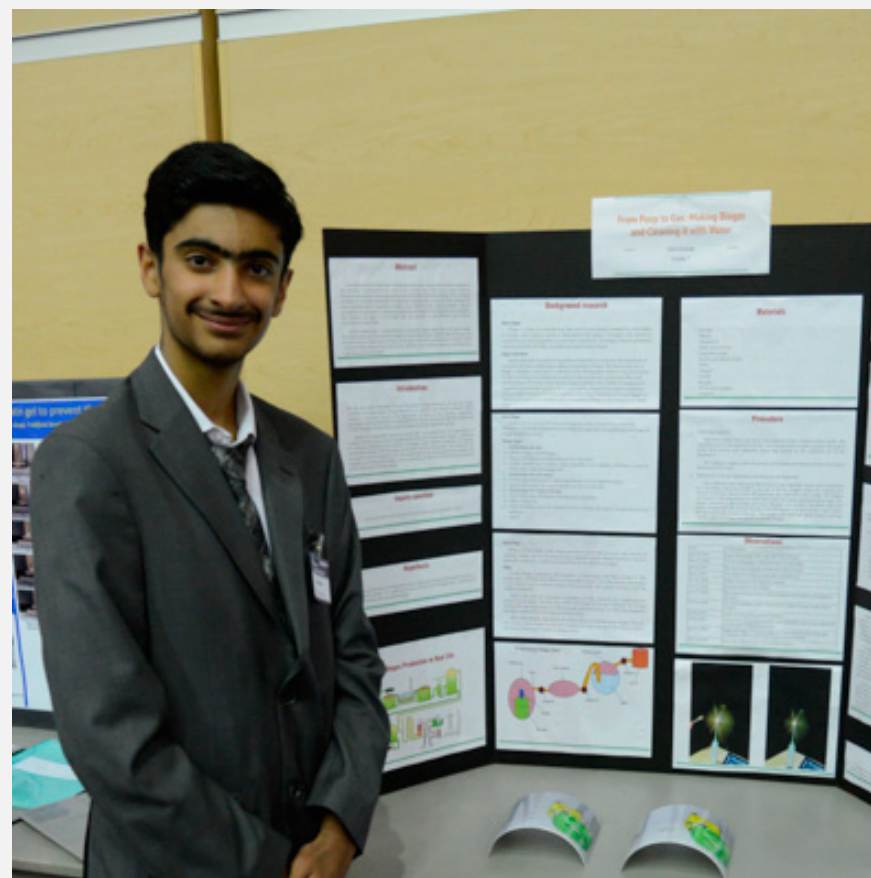
Harrison Family Chemistry Award

Sahil Danda

N08

From Poop to Gas: Making Biogas and Cleaning it with Water

W. H. Morden Public School
Oakville



Hillfield Strathallan College Awards of Excellence



Hillfield Strathallan College Awards of Excellence - Life Sciences Award

Zoya Waseem

K20

Pneumonia Detective: The Effectiveness of a Pneumonia Detection ML VS. Medical Practitioners

Al-Falah Islamic School
Oakville



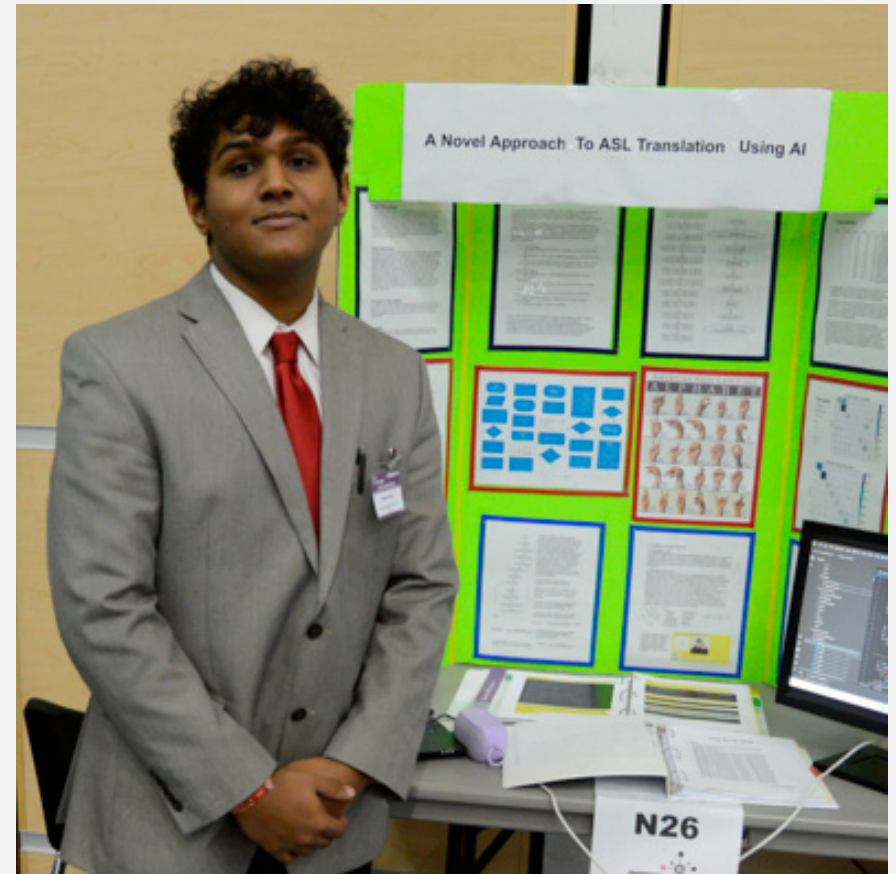
Hillfield Strathallan College Awards of Excellence - Scientific Process Award

Vedant Sheel

N26

A Novel Approach to ASL Translation Using AI

Waterdown District Secondary School
Waterdown



Hillfield Strathallan College Awards of Excellence - Innovation Award

William Xu

P13

Accessible microscopy! A cellphone microscope for
high-resolution, large FOV, and high-speed imaging

Dundas Valley Secondary School
Dundas



Hillfield Strathallan College Entrance Scholarship Award



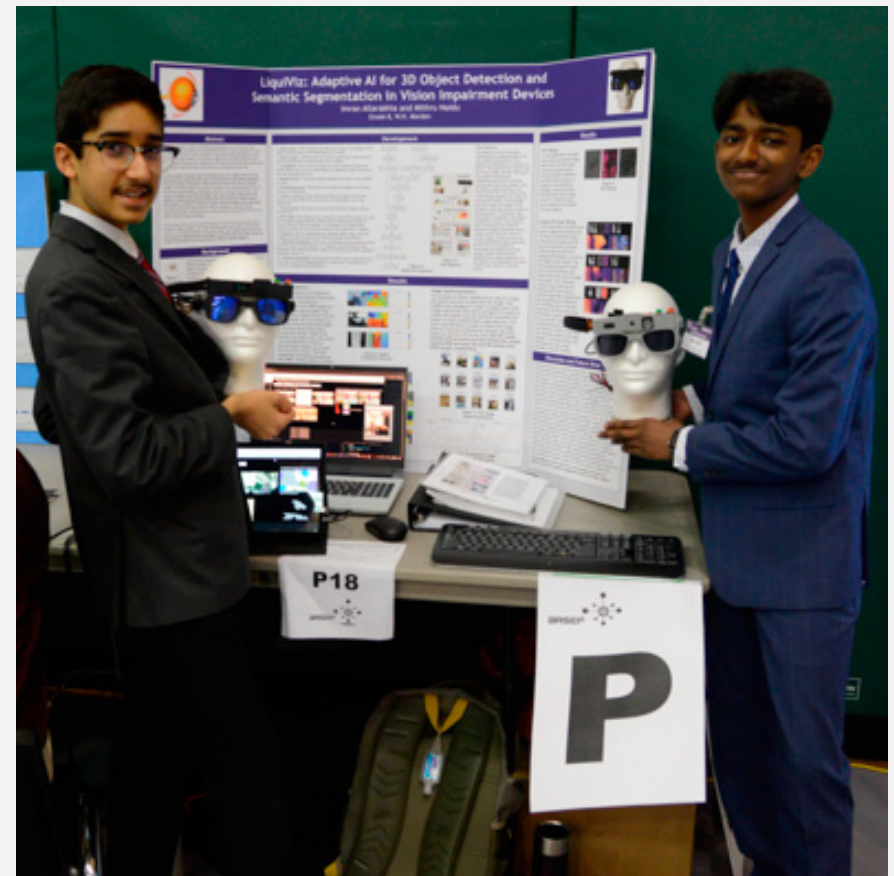
Hillfield Strathallan College Entrance Scholarship Award

Imran Allarakhia & Mithru Naidu

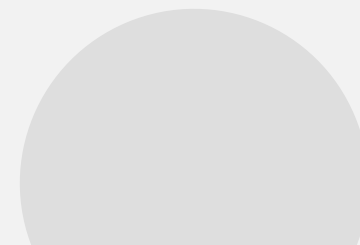
P18

LiquiViz: Adaptive AI for 3D Object Detection and
Semantic Segmentation in Vision Impairment Devices

W. H. Morden Public School
Oakville



John W. Howard Materials Research Award



John W. Howard Materials Research Award

Zaid Kulasic

F07

Evaluation the Effectiveness of Insulation Materials

Al-Falah Islamic School
Oakville



IEEE (Institute of Electrical and Electronic Engineers) Hamilton Section Awards



IEEE (Institute of Electrical & Electronic Engineers) Hamilton Section Award

Nicholas Pacifici

H08

The PrepStep: A Mobile Health Platform to Detect
Ventricular Cardiomyopathy in Athletes Using AI

St. Mary Secondary School
Hamilton



IEEE (Institute of Electrical &
Electronic Engineers) Hamilton
Section Award

William Xu

P13

Accessible microscopy! A cellphone microscope for
high-resolution, large FOV, and high-speed imaging

Dundas Valley Secondary School
Dundas



International Science & Engineering Affiliated Fair Awards



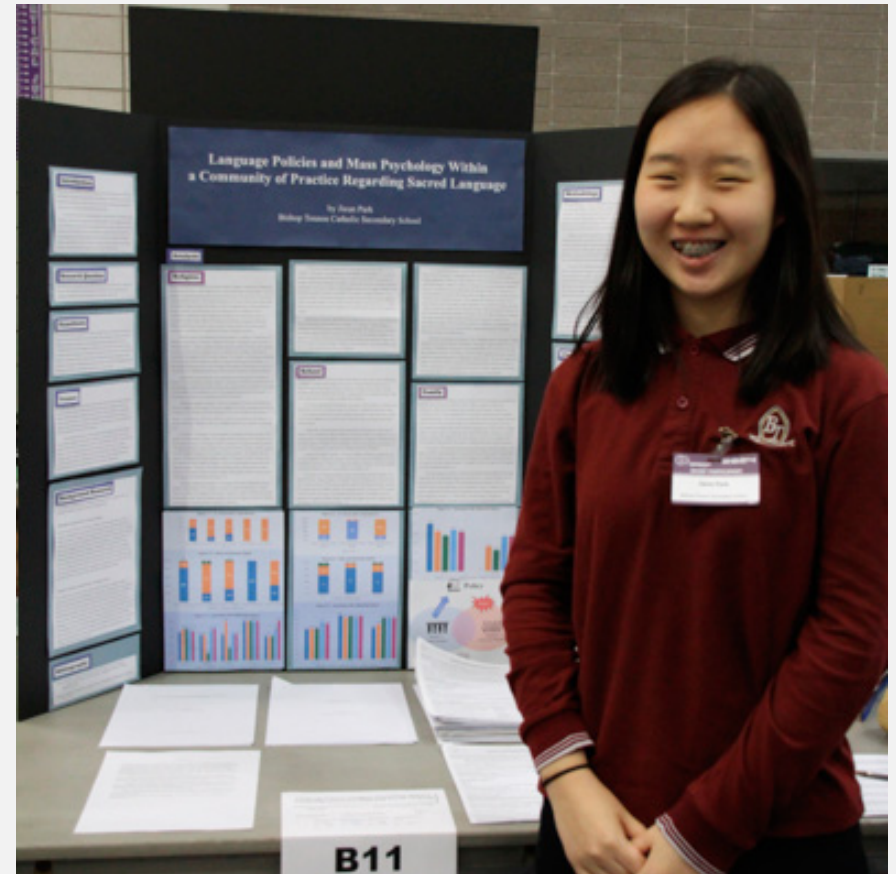
American Psychological Association Award

Jieun Park

B11

Language Policies and Mass Psychology Within a
Community of Practice Regarding Sacred Language

Bishop Tonnos Secondary School
Ancaster



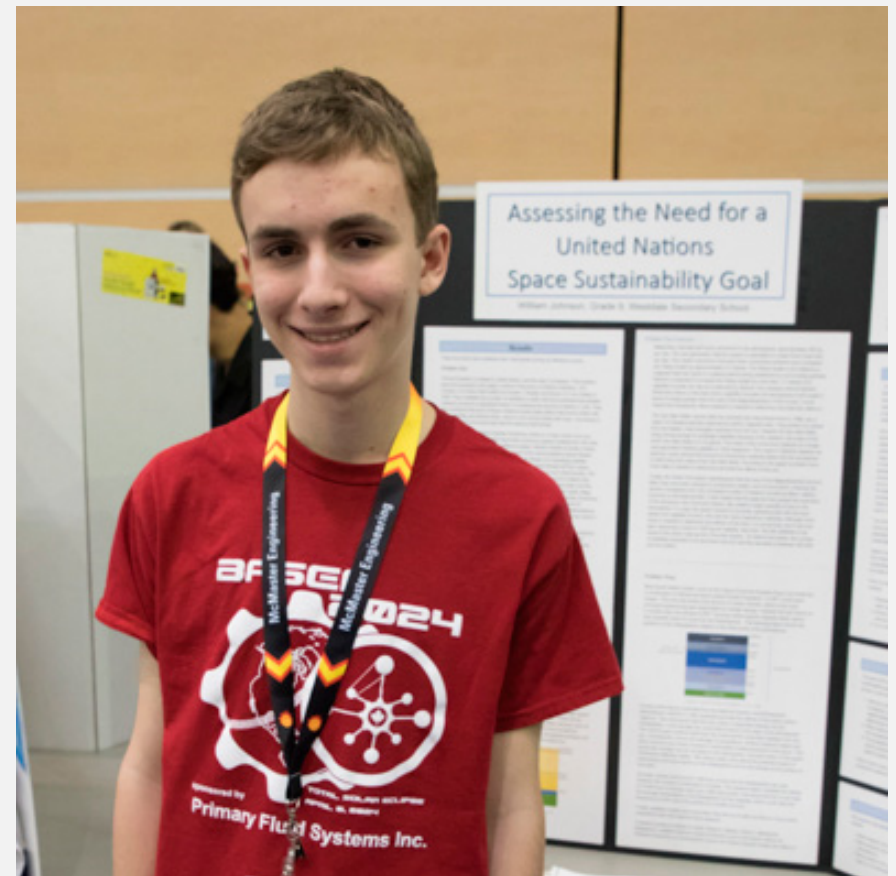
Ricoh USA, Inc. Award

William Johnson

L14

Assessing the Need for a United Nations' Space Sustainability Goal

Westdale Secondary School
Hamilton



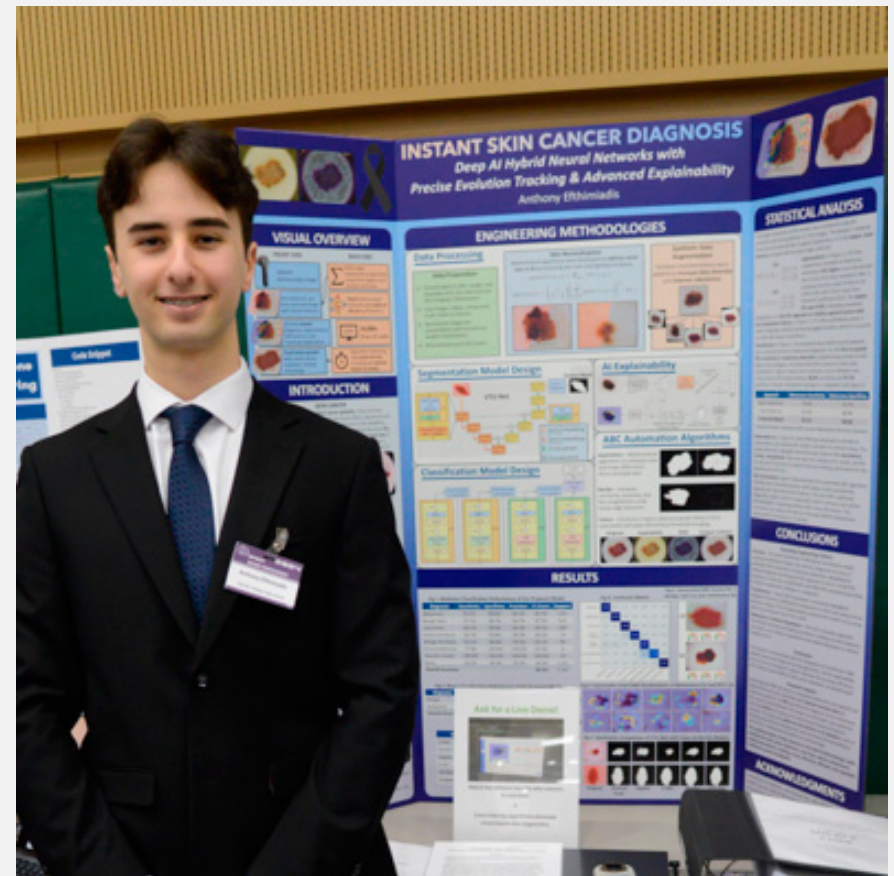
U.S. Agency for International Development (USAID) Award

Anthony Efthimiadis

P11

Instant Skin Cancer Diagnosis: AI Hybrid Neural Networks with Precise Evolution Tracking

Oakville Trafalgar High School
Oakville



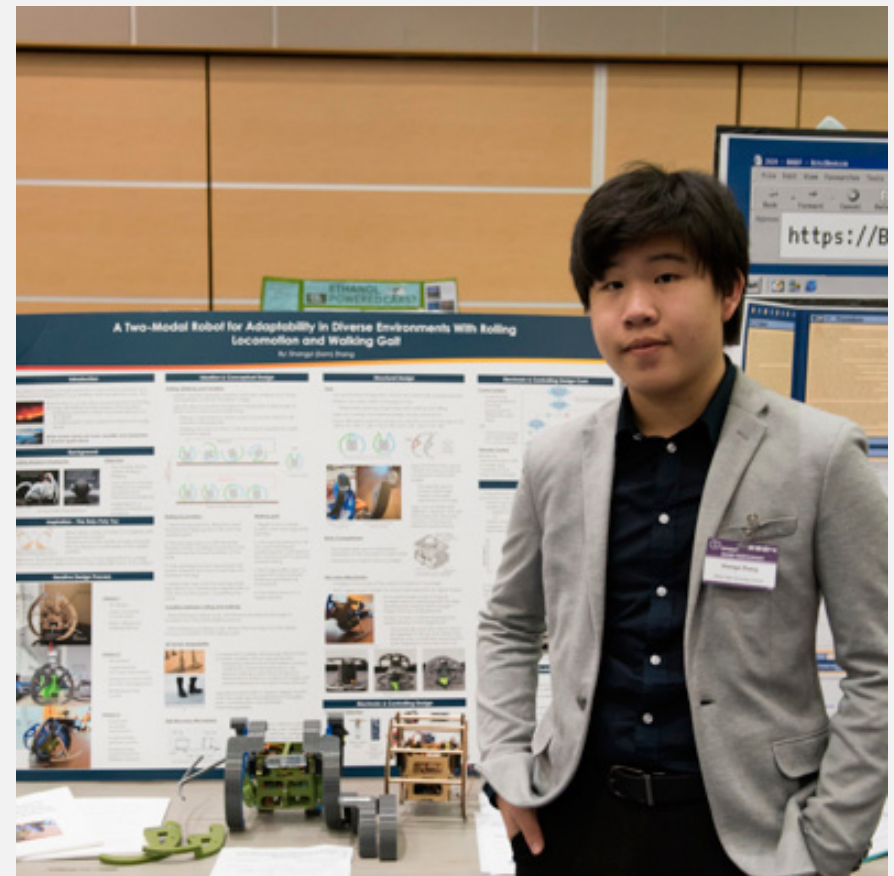
Yale Science & Engineering Association Award

Shangyi Zhang

J13

A Two-Modal Robot for Adaptability in Diverse
Environments With Rolling Locomotion and Walking
Gait

White Oaks Secondary School
Oakville



Laurentian Chapter of SETAC Awards



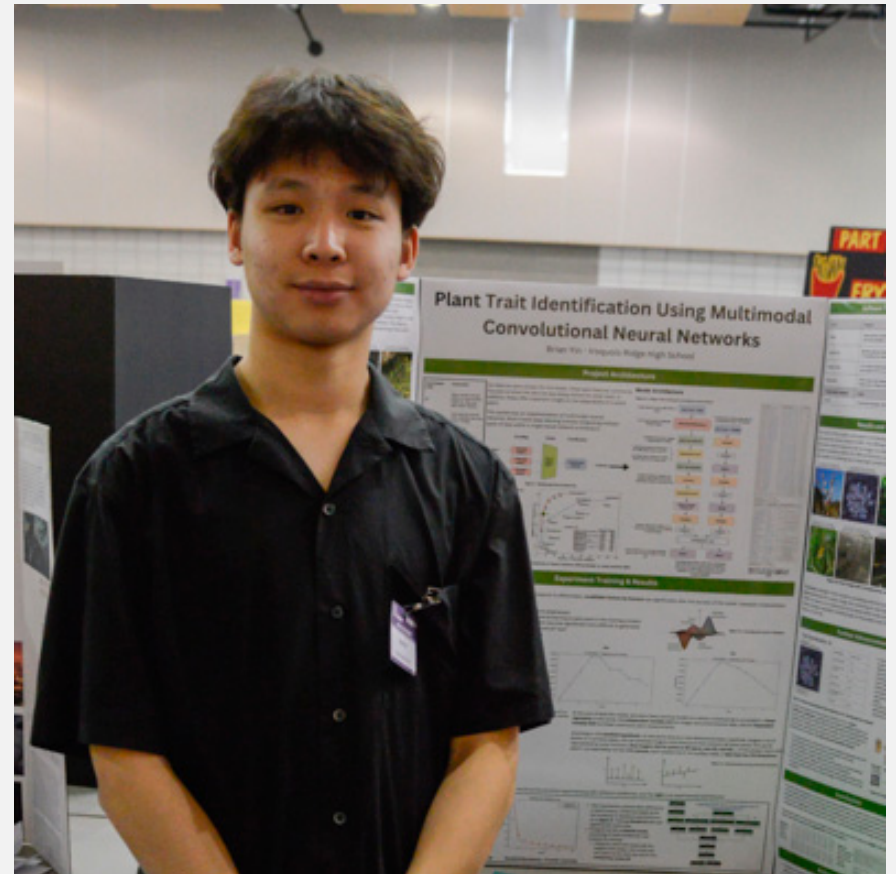
Laurentian Chapter of SETAC Award

Brian Yin

M15

Plant Trait Identification Using Convolutional Neural Networks

Iroquois Ridge High School
Oakville



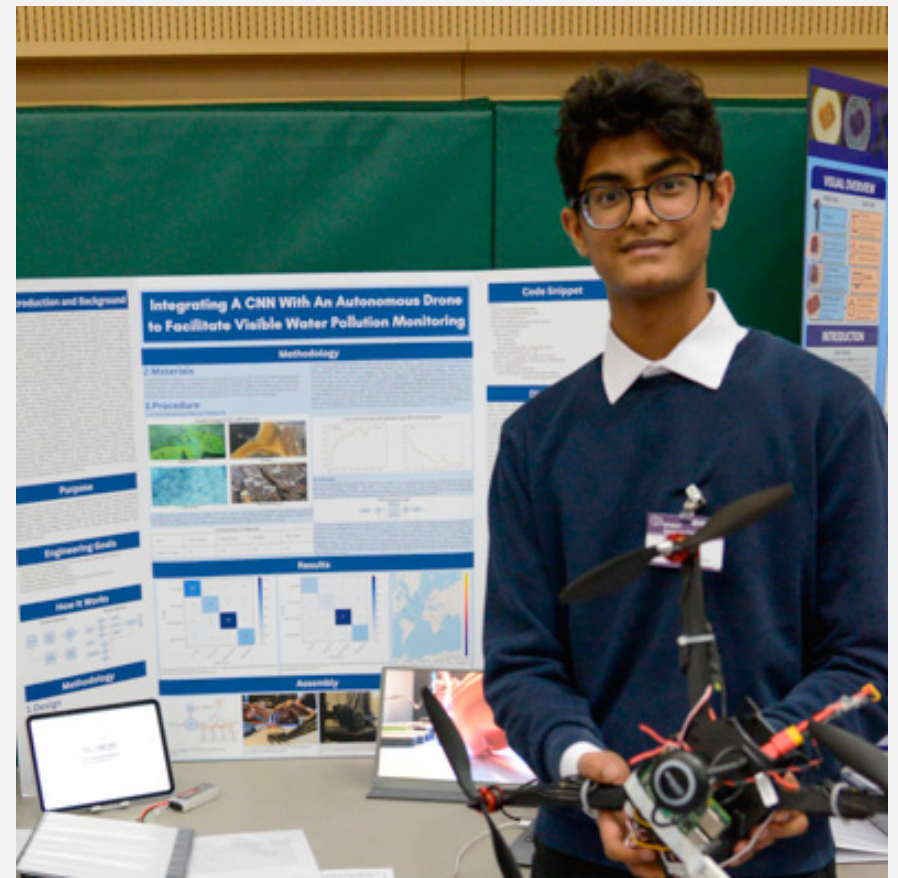
Laurentian Chapter of SETAC Award

Anish Rathod

P10

Integrating A CNN With An Autonomous Drone To Facilitate Visible Water Pollution Monitoring

Burlington Central High School
Burlington



Dr. Colin J.L. Lock Memorial Chemistry Award



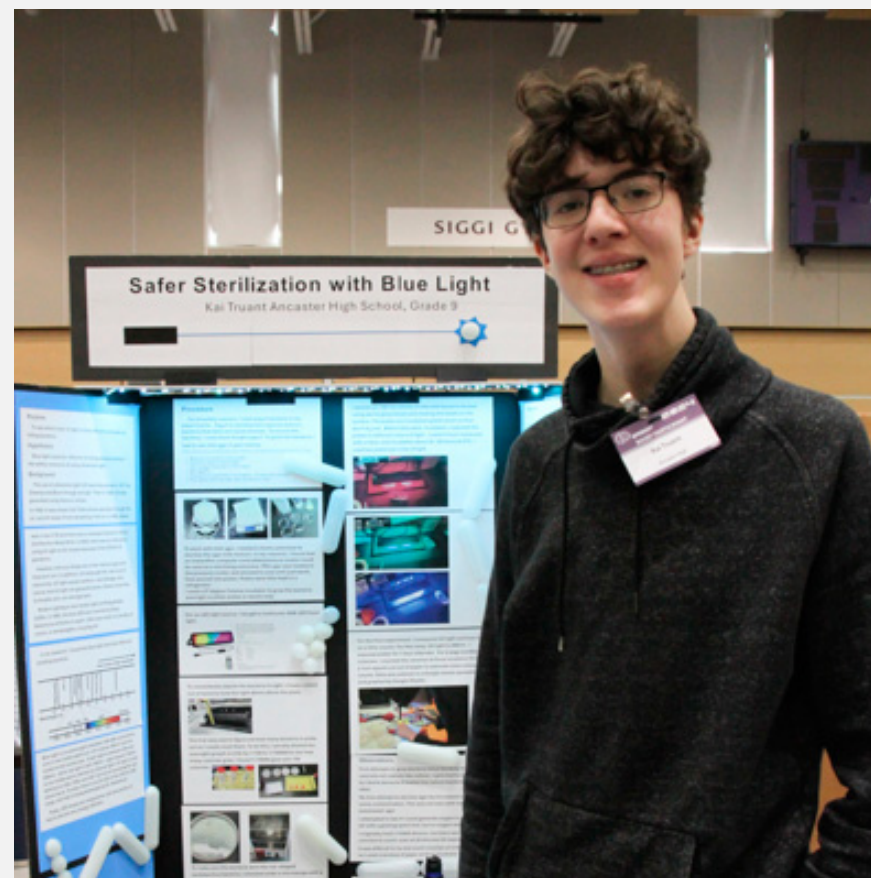
Dr. Colin J.L. Lock Memorial Chemistry Award

Kai Truant

E19

True Blue: A Safer Way to kill Bacteria and Viruses with
Light

Ancaster High
Ancaster



Ola Lunnyk-Child Memorial Health Awards



Ola Lunyk-Child Memorial Health Science Award - Third

Bahaa Al Deen Alsaadi & Zena Alsaadi

J12

Bits to Bedside: An Ingenious Exploration of Machine
Learning in Triage Assessments

Al-Falah Islamic School
Oakville



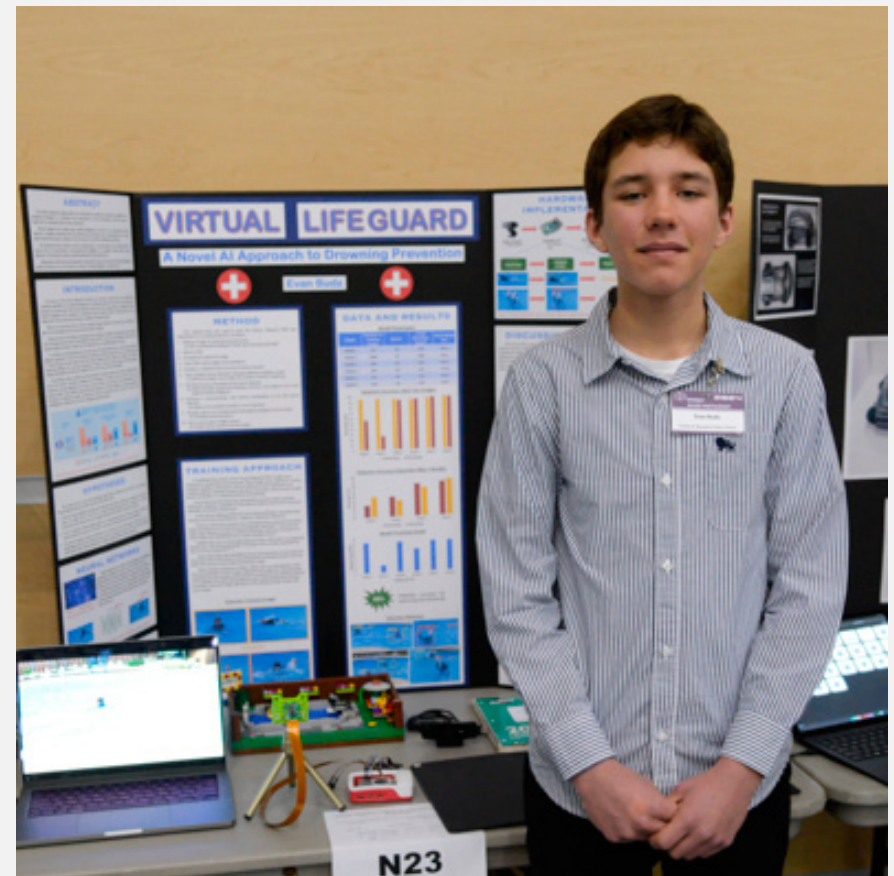
Ola Lunnyk-Child Memorial Health Science Award - Second

Evan Budz

N23

Virtual Lifeguard: A Novel AI Approach to Drowning
Prevention

Charles R. Beaudoin Public School
Burlington



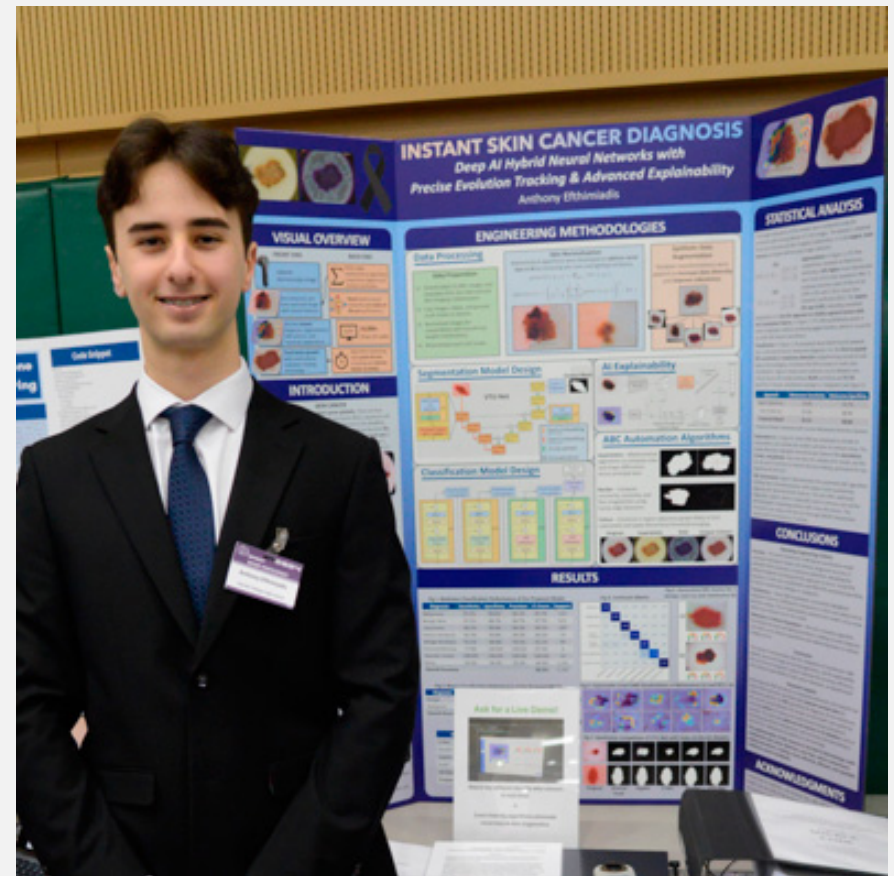
Ola Lunnyk-Child Memorial Health Science Award - First

Anthony Efthimiadis

P11

Instant Skin Cancer Diagnosis: AI Hybrid Neural
Networks with Precise Evolution Tracking

Oakville Trafalgar High School
Oakville



Mahut-Brent Award for Young People in Science and Engineering



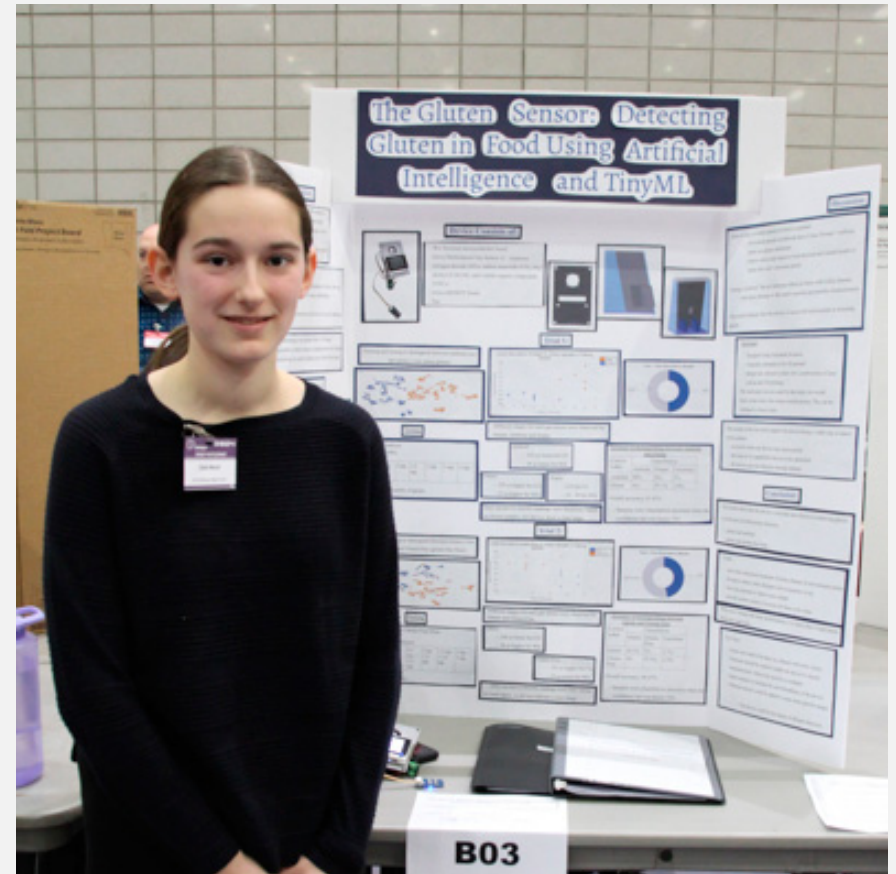
Mahut-Brent Award for Young People in Science and Engineering

Claire Marsh

B03

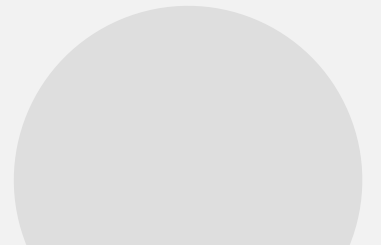
The Gluten Sensor: Detecting Gluten in Food Using
Artificial Intelligence and TinyML

M. M. Robinson High School
Burlington



McMaster University

Department of Chemical Engineering



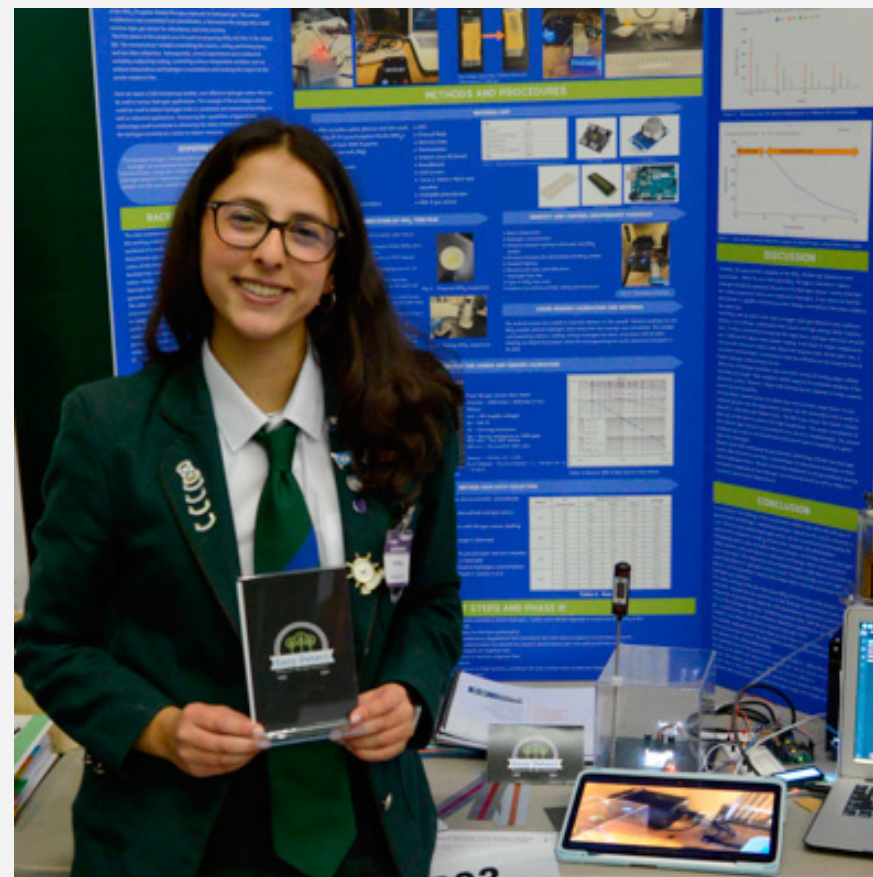
McMaster Department of Chemical Engineering Award

Alia Wahban

P03

Redefining the Landscape of Hydrogen Safety using
Innovative Gasochromic Technology

Hillfield Strathallan College
Hamilton



**McMaster University
Department of Chemistry and Chemical Biology
Award**

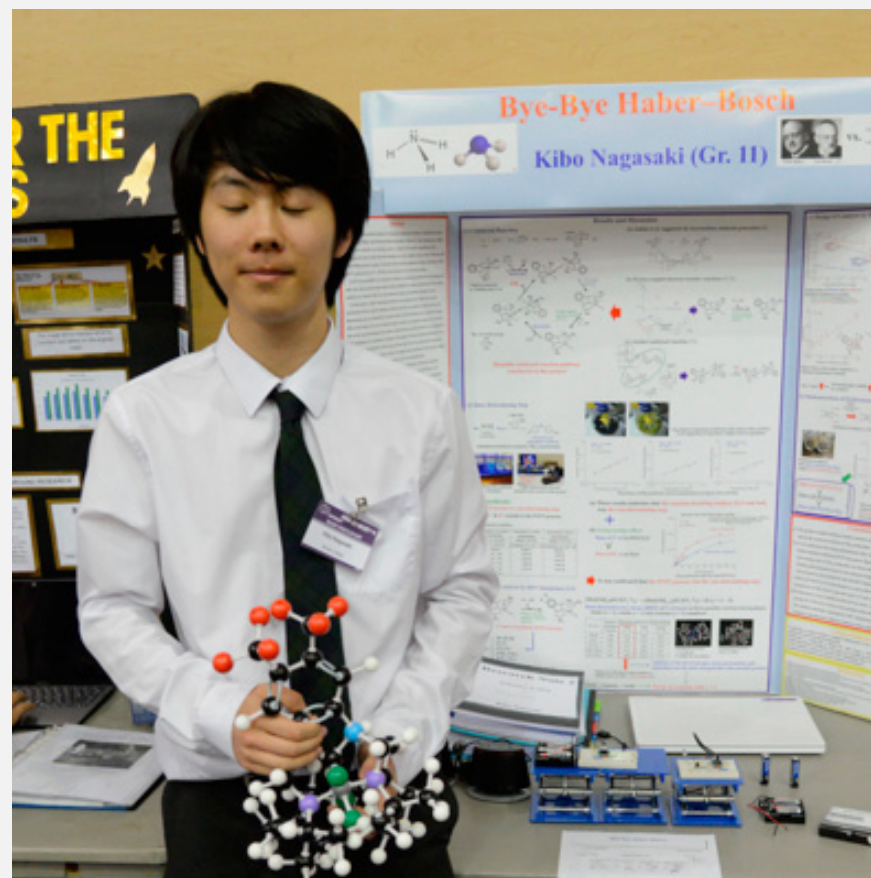


McMaster University Department of
Chemistry and Chemical Biology
Award

Kibo Nagasaki

N10
Bye-Bye Haber-Bosch

Mentor College
Mississauga



McMaster University Faculty of Engineering Entrance Awards



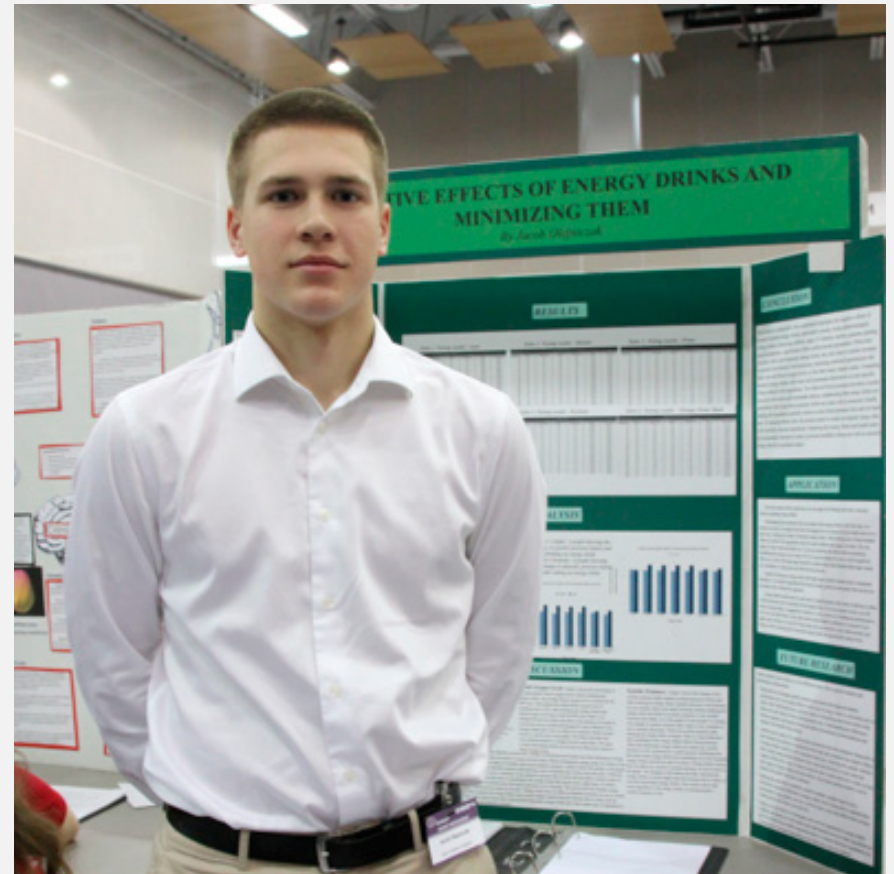
McMaster University Faculty of Engineering Entrance Award

Jacob Olejniczak

C17

Negative Effects of Energy Drinks and Minimizing
Them

King's Christian Collegiate
Oakville



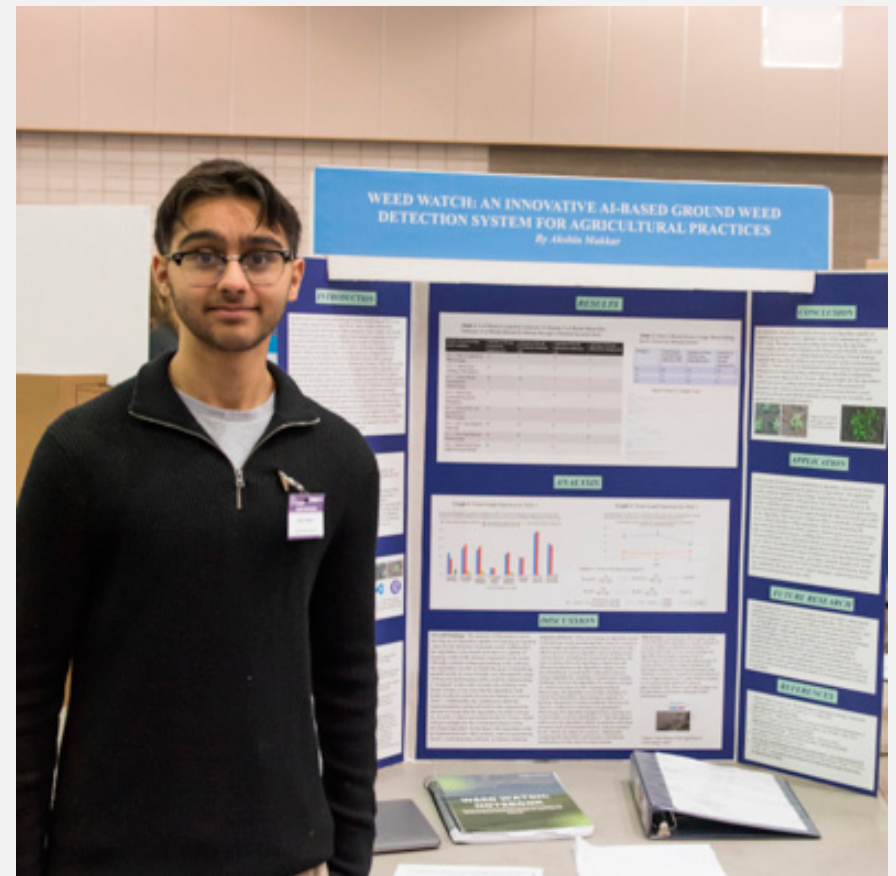
McMaster University Faculty of Engineering Entrance Award

Akshin Makkar

H12

Weed-Watch: an Innovative AI-Based Ground Weed
Detection System for Agricultural Practices

King's Christian Collegiate
Oakville

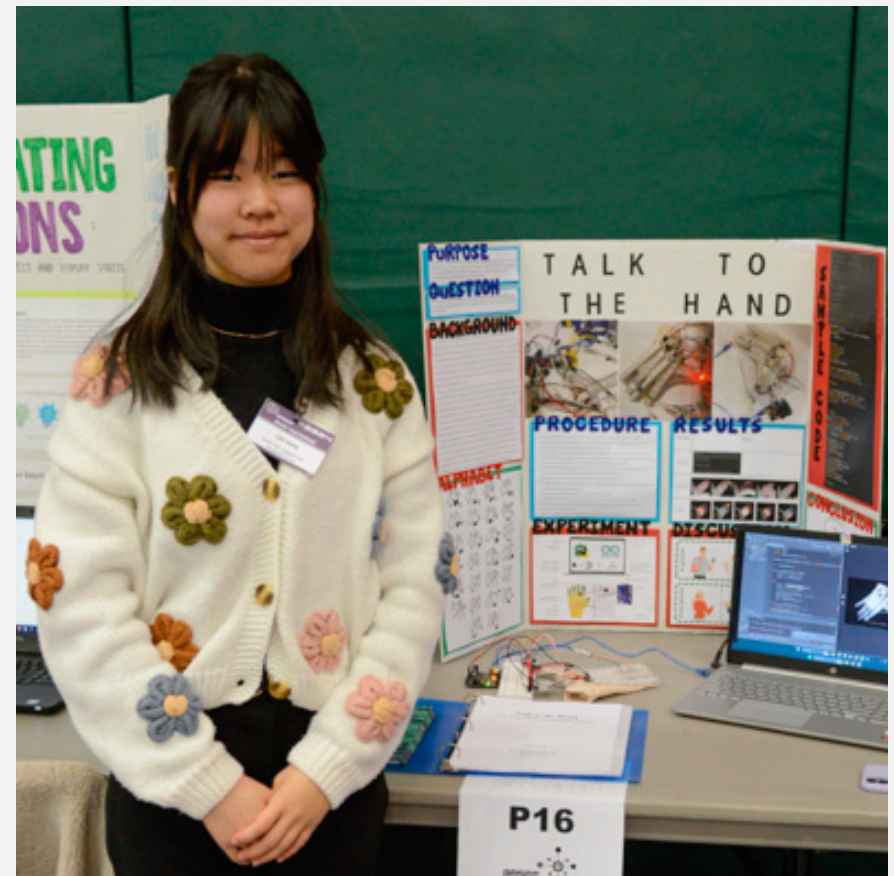


McMaster University Faculty of Engineering Entrance Award

Lily Song

P16
Talk to the Hand

North Park Collegiate and Vocational School
Brantford



**McMaster University
MGD Institute for Infectious Disease Research
Awards**



Michael G. DeGroote Institute for Infectious Disease Research Award

Jordan LeBlanc

N24

A Novel System for Objective Clinical Assessment of
Cold and Influenza Using Infrared Image Analysis

St. Matthew Elementary School
Oakville



Michael G. DeGroote Institute for Infectious Disease Research Award

Zoya Waseem

K20

Pneumonia Detective: The Effectiveness of a
Pneumonia Detection ML VS. Medical Practitioners

Al-Falah Islamic School
Oakville



Michael G. DeGroote Institute for
Infectious Disease Research Grand
Award

Season Wang

A18

Plants Vs. Zombies: The Extraction of Fisetin from
Different Forms of Strawberries

Oakville Trafalgar High School
Oakville



McMaster University
School of Earth, Environment and Society



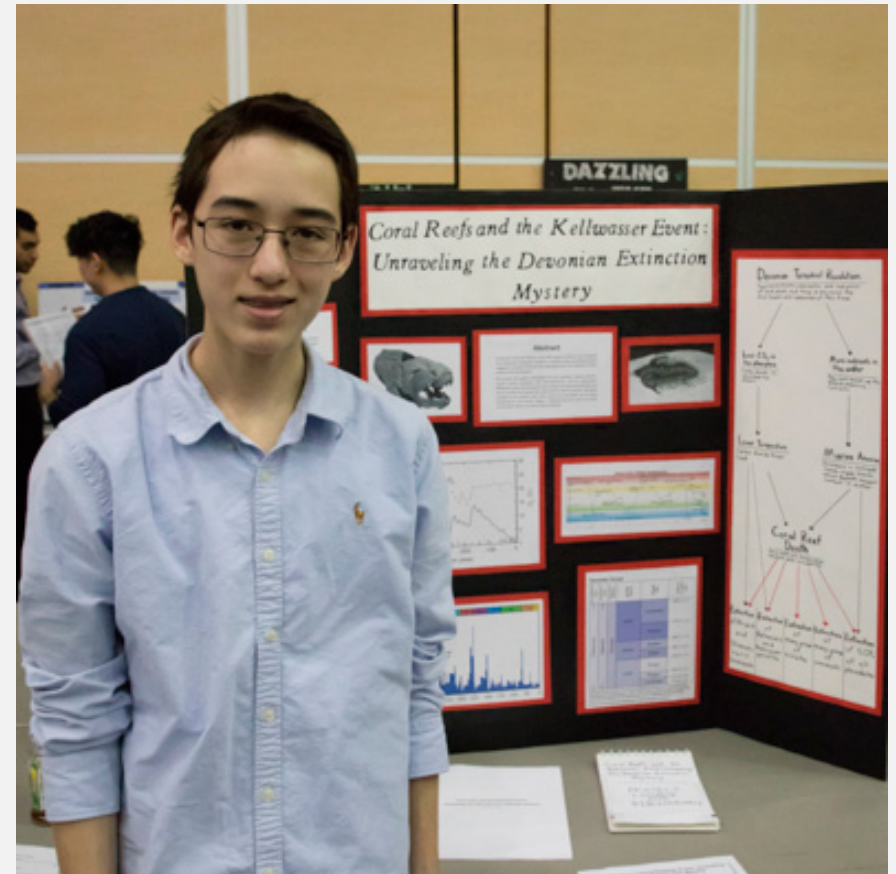
Earth and Environmental Sciences Award

Tristan Barkman

L11

Coral Reefs and the Kellwasser Event: Unraveling the
Devonian Extinction Mystery

Home Schooling
Brantford



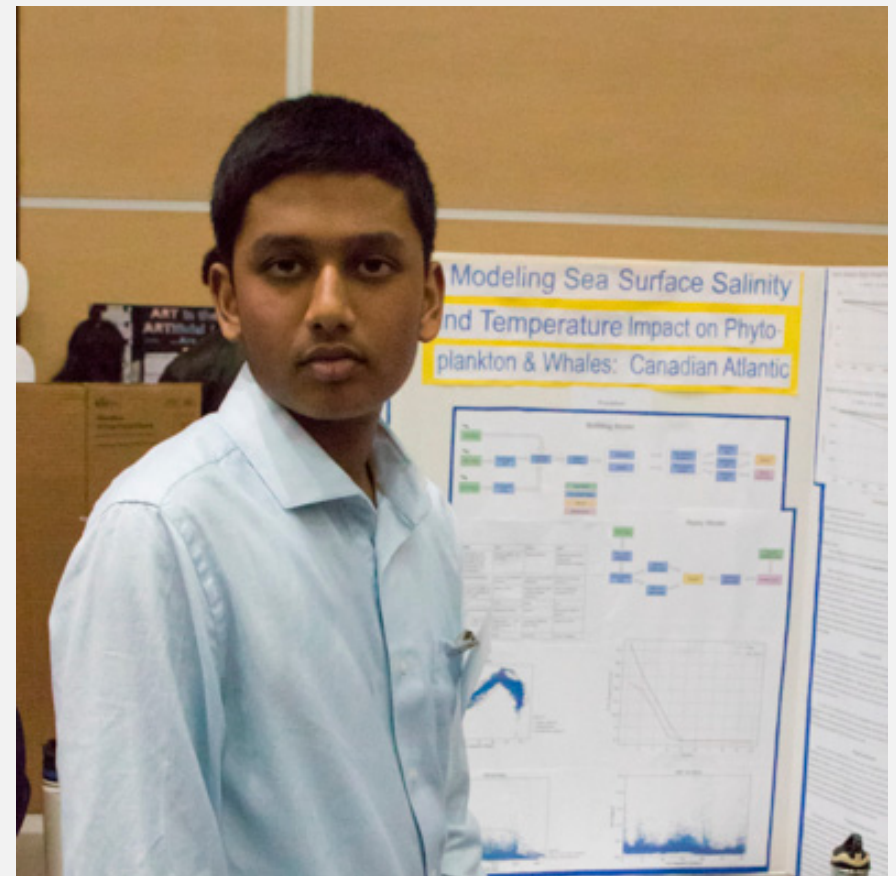
Geography Award

Daksh Srivastava

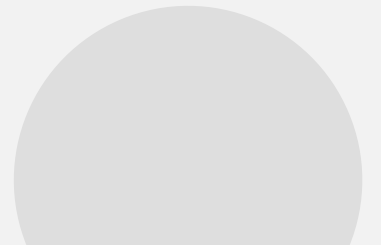
L16

Modeling Sea Surface Salinity and Temperature
Impact on Phytoplankton & Whales: Canadian Atlantic

Pilgrim Wood Public School
Oakville



Mechanical Contractors Association Hamilton Niagara Award



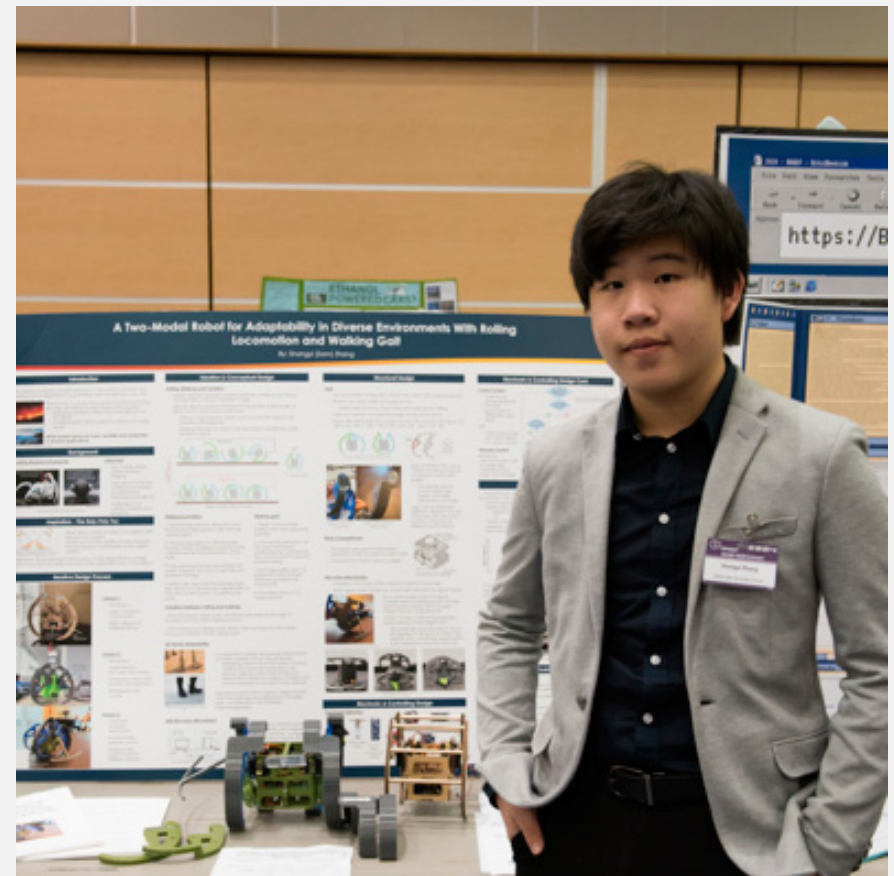
Mechanical Contractors Association Hamilton Niagara Award

Shangyi Zhang

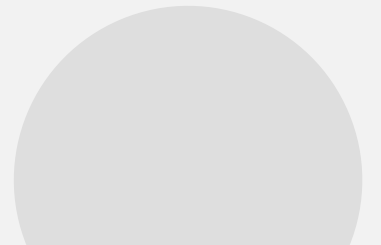
J13

A Two-Modal Robot for Adaptability in Diverse
Environments With Rolling Locomotion and Walking
Gait

White Oaks Secondary School
Oakville



Mohawk College Building & Construction Sciences Awards



Mohawk College Building & Construction Sciences Awards - Civil Engineering

Rishibha Arora & Nina Chen

M07

Geothermal Energy Powered Street Light

John William Boich Public School
Burlington



Mohawk College Building & Construction Sciences Awards - Transportation Engineering

Dithira Muthukumarana & Jared Smith

L13

CO2 Free Ethanol Powered Cars?

St. Matthew
Hamilton



Mohawk College Building & Construction Sciences Awards - Building Sciences

Zaid Kulasic

F07

Evaluation the Effectiveness of Insulation Materials

Al-Falah Islamic School
Oakville



Mohawk College Electrical Engineering Technology Awards



Mohawk College Electrotechnology - Computer Engineering Technology Award

Jacob LeBlanc

P02

Development of a Novel Integrated System for Electric
Vehicle Charging During Vehicle Operation

Abbey Park High School
Oakville



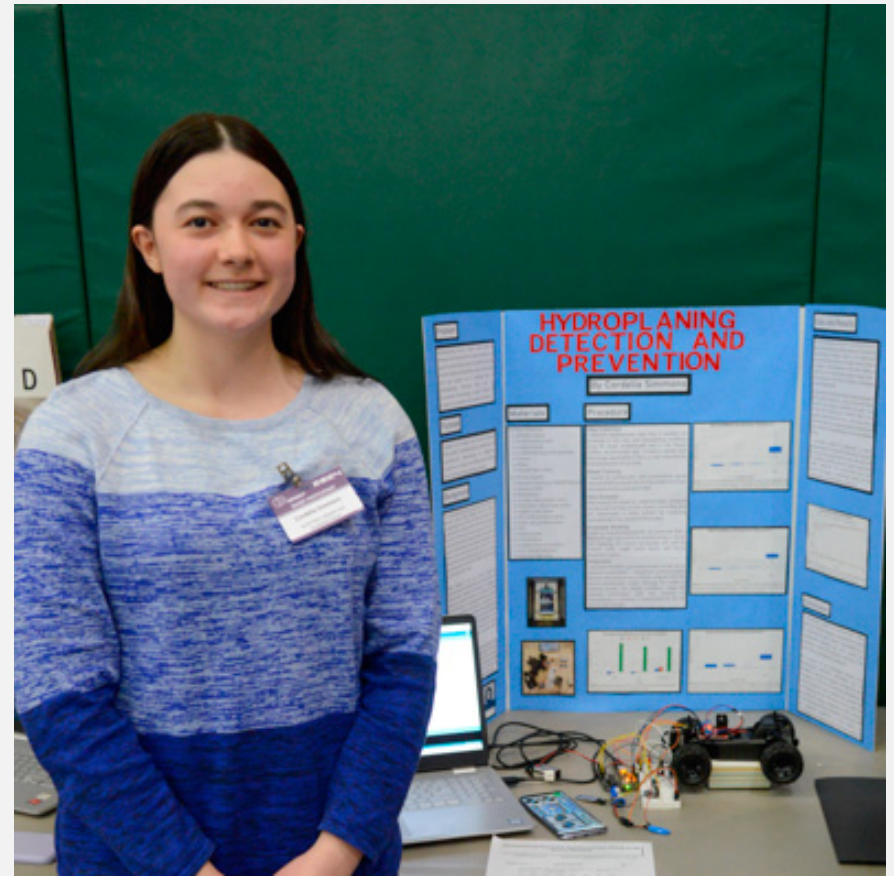
Mohawk College Electrotechnology - Electrical Engineering Award

Cordelia Simmons

P17

Hydroplaning Detection and Prevention Using an AI
Neural Network

North Park Collegiate and Vocational School
Brantford



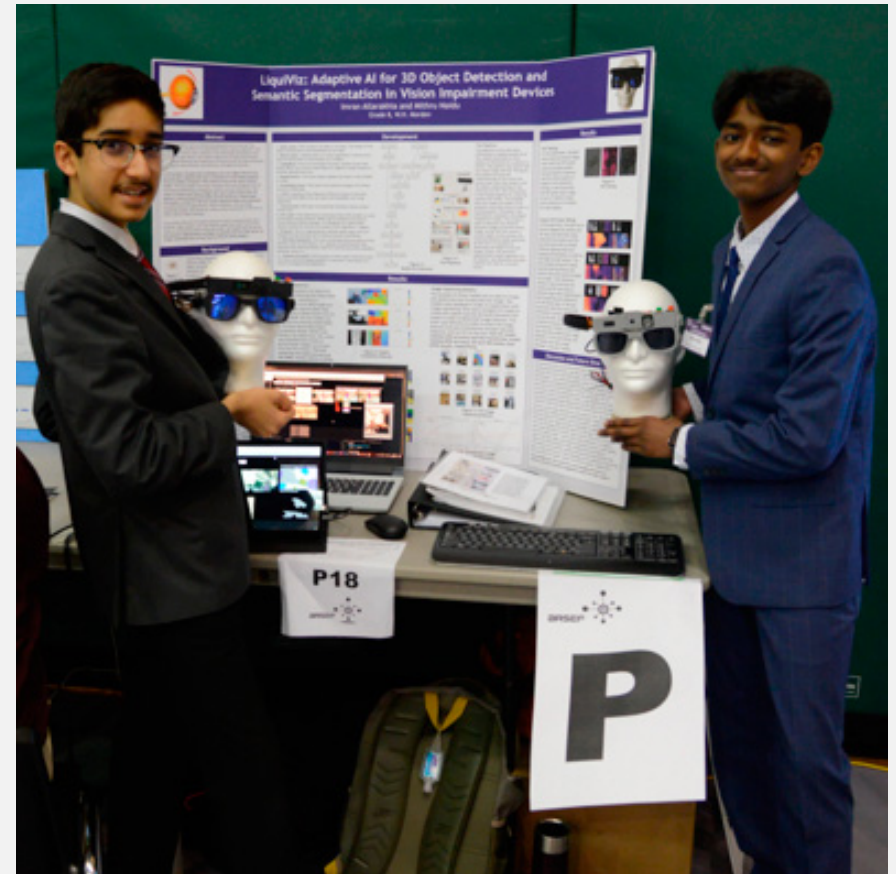
Mohawk College Electrotechnology - Energy Systems Award

Imran Allarakhia & Mithru Naidu

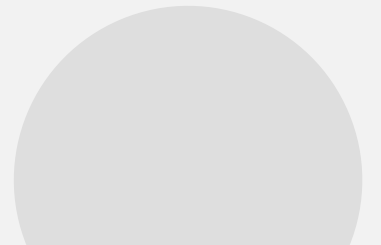
P18

LiquiViz: Adaptive AI for 3D Object Detection and
Semantic Segmentation in Vision Impairment Devices

W. H. Morden Public School
Oakville



Mohawk College Mathematics Awards



Mohawk College Mathematics Awards - Junior

Jonathan Vidican

J15
Chaos, break the wave!

St. Mary Elementary School
Oakville



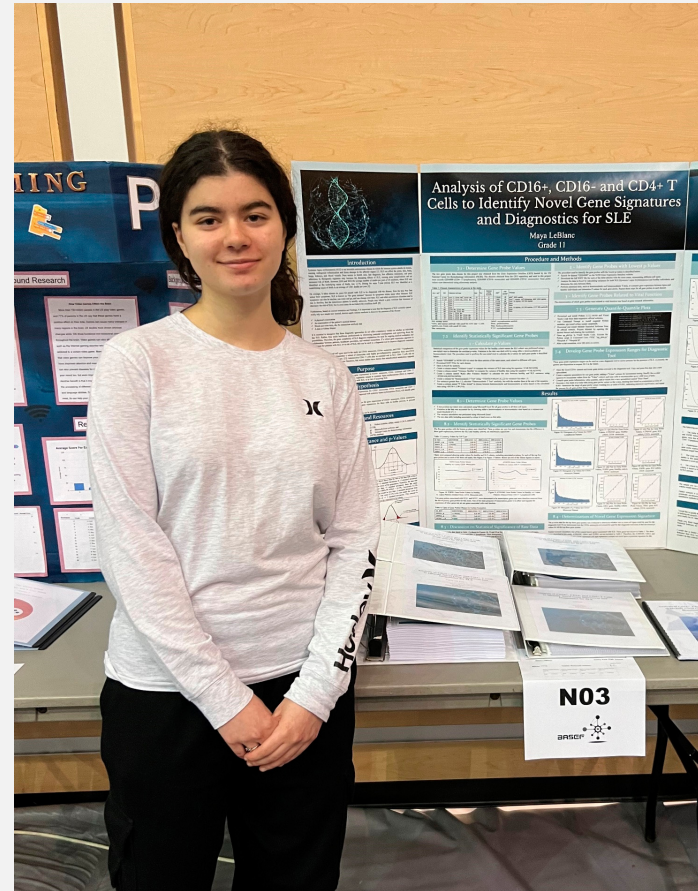
Mohawk College Mathematics Awards - Senior

Maya LeBlanc

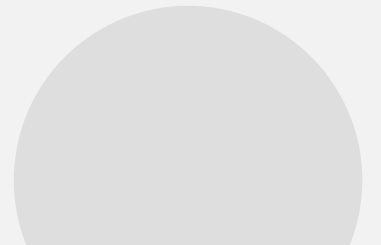
N03

Analysis of CD16+, CD16- and CD4+ T Cells to
Identify Novel Gene Signatures and Diagnostics for
SLE

Abbey Park High School
Oakville



Mohawk College Computer Science & Information Technology Excellence Awards

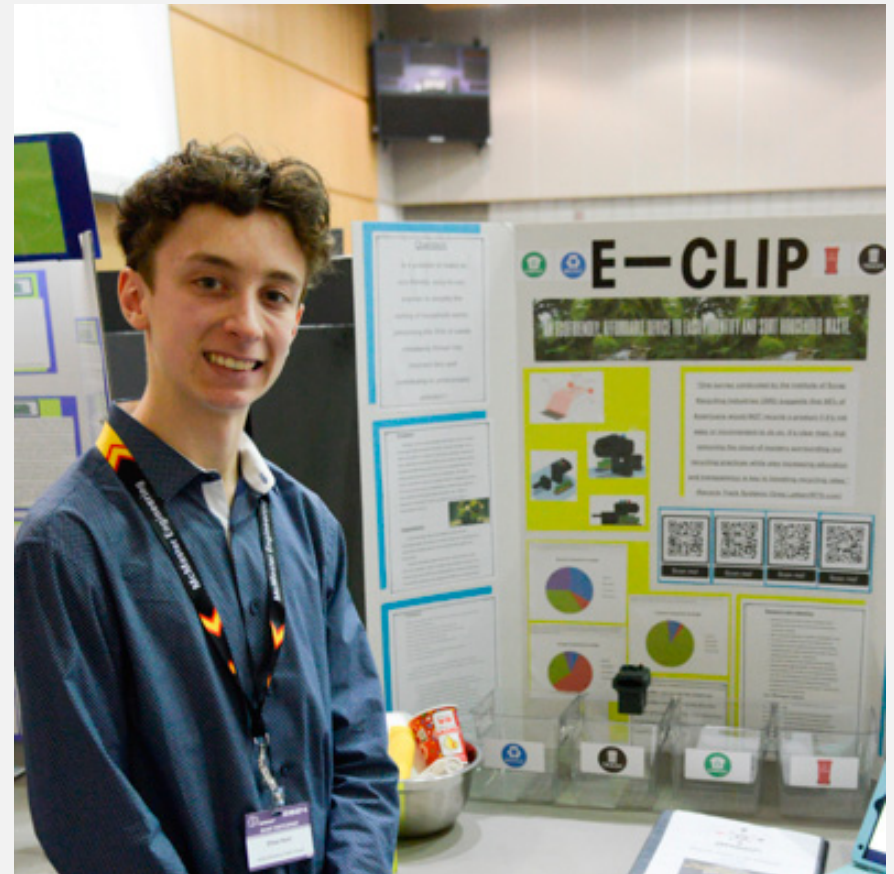


Mohawk College Computer Science & Information Technology Excellence Award

Ethan Horn

M03
E-Clip

Rolling Meadows Public School
Burlington

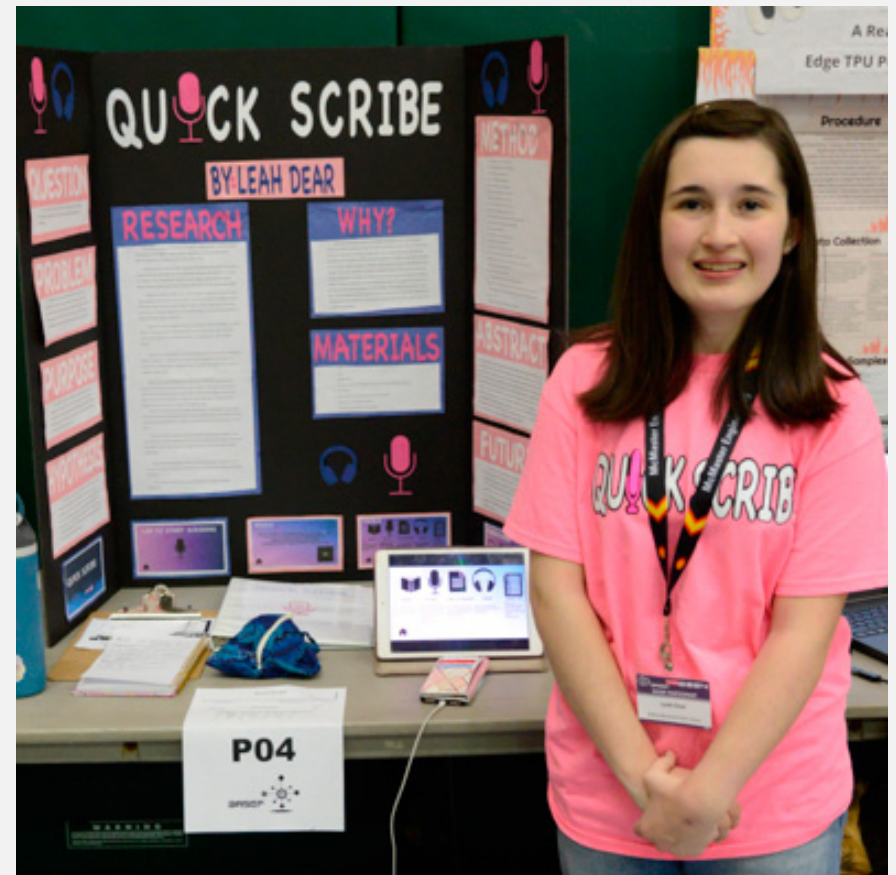


Mohawk College Computer Science & Information Technology Excellence Award

Leah Dear

P04
Quick Scribe

Rolling Meadows Public School
Burlington



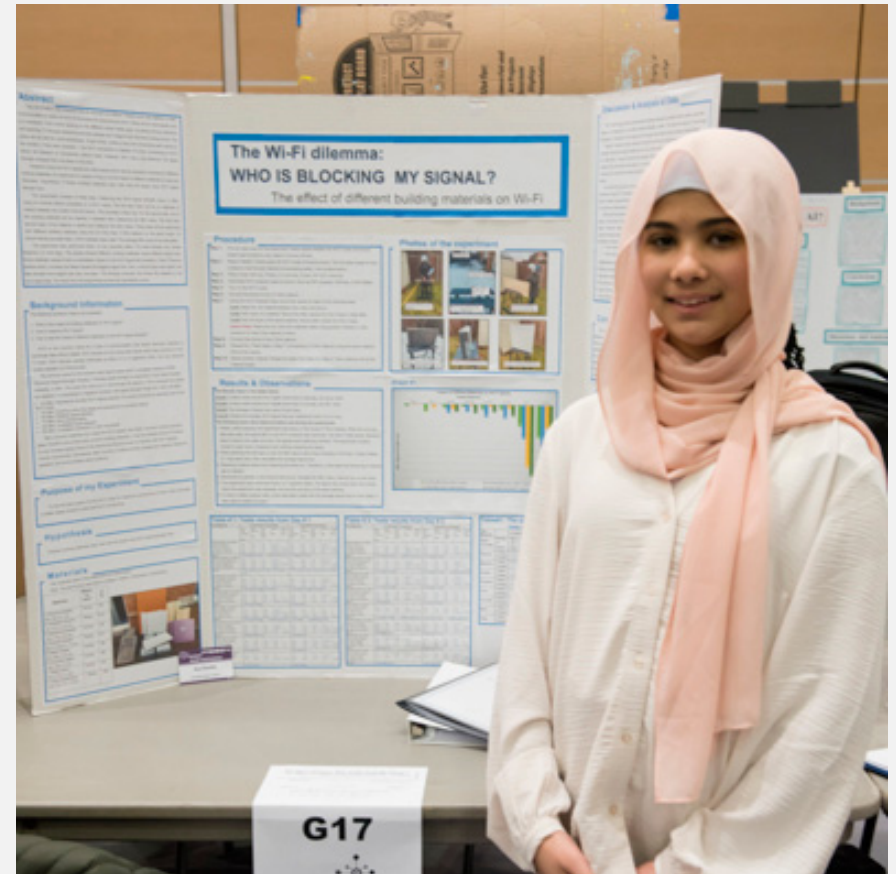
Mohawk College Computer Science & Information Technology Excellence Award

Aya Gharbia

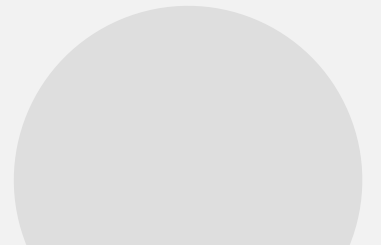
G17

The Wi-Fi dilemma: Who Is Blocking My Signal? The
effect of different building materials on Wi-Fi

Al-Falah Islamic School
Oakville



Nelson Steel Awards



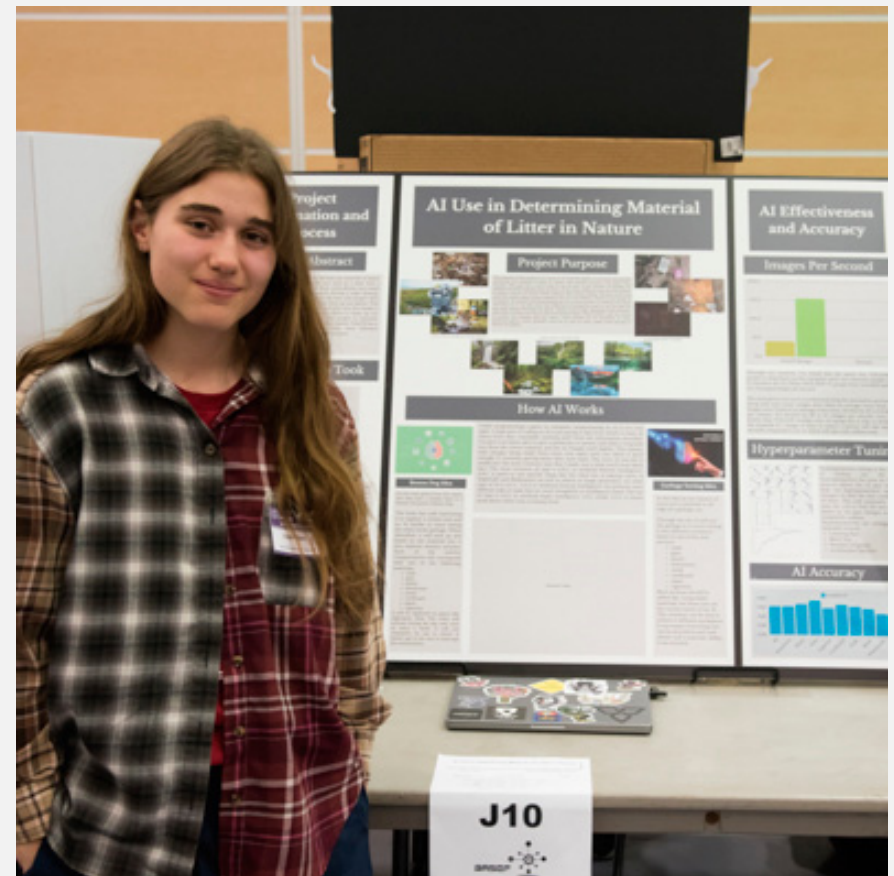
Nelson Steel Award

Evelyn Peart

J10

AI Use In Determining Material Of Litter In Nature

Tiger Jeet Singh Public School
Milton



Nelson Steel Award

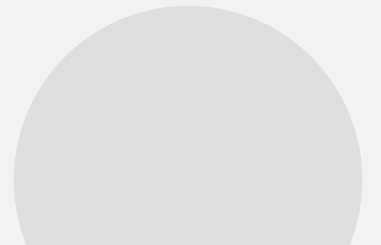
Dithira Muthukumarana & Jared Smith

L13
CO2 Free Ethanol Powered Cars?

St. Matthew
Hamilton



New Health Scientist Award



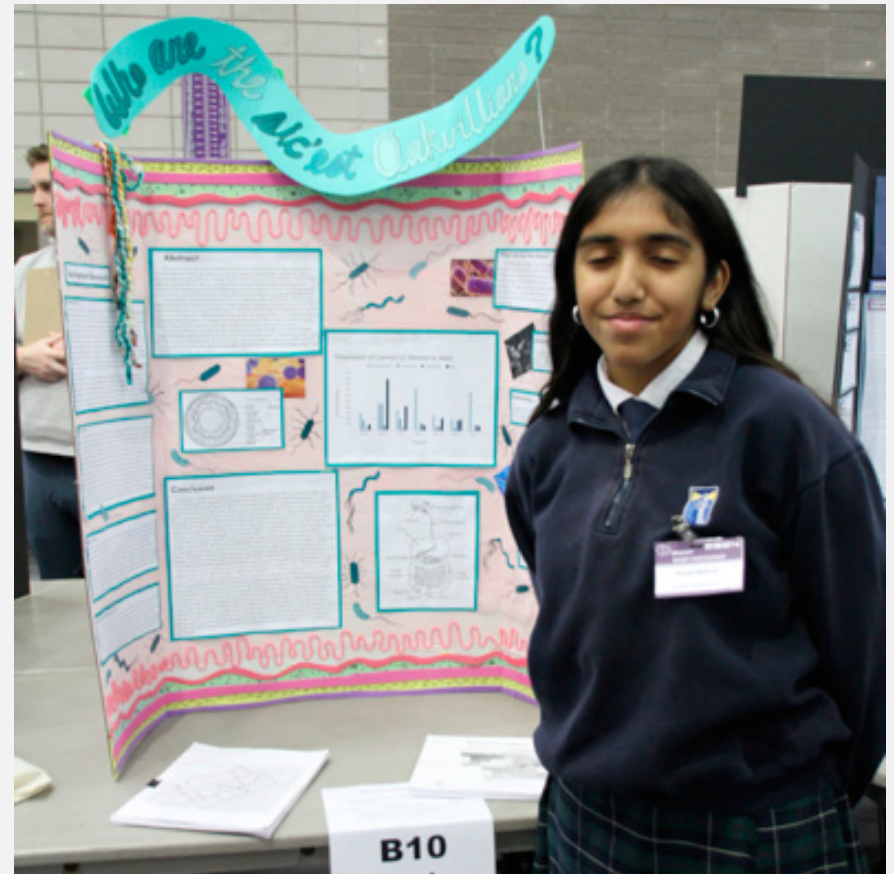
New Health Scientist Award

Avaya Sharma

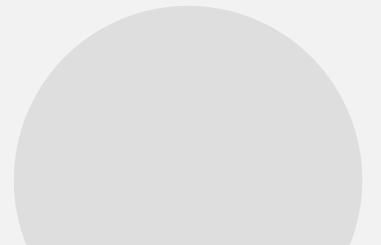
B10

Who Are The Sic'est Oakvillians

Oakville Christian School
Oakville



Nikola Tesla Innovation Awards



Nikola Tesla Innovation Award - Bronze

Emmalina Abou-Assaleh & Sahana Merchant

K06

The Power and Potential of Electromagnetic Radiation

W. H. Morden Public School
Oakville



Nikola Tesla Innovation Award - Silver

Jonathan Vidican

J15

Chaos, break the wave!

St. Mary Elementary School
Oakville



Nikola Tesla Innovation Award - Gold

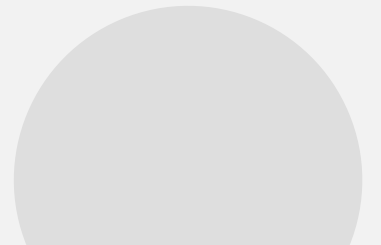
Obaida Abu dagga & Ahmed Saeed

G03
Homemade Tesla Coil

Ancaster Meadow
Ancaster



Procor Engineering Awards



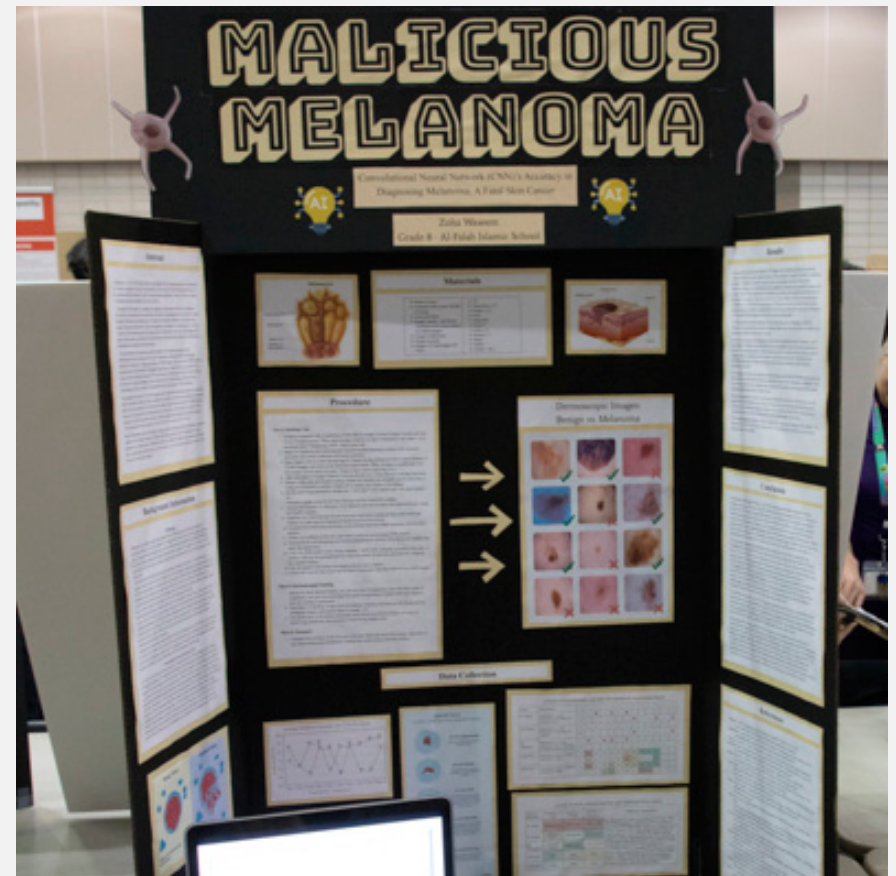
Procor Engineering Award - Junior

Zoha Waseem

K10

Malicious Melanoma: Convolutional Neural Network's Accuracy in Diagnosing Malignant Melanoma

Al-Falah Islamic School
Oakville



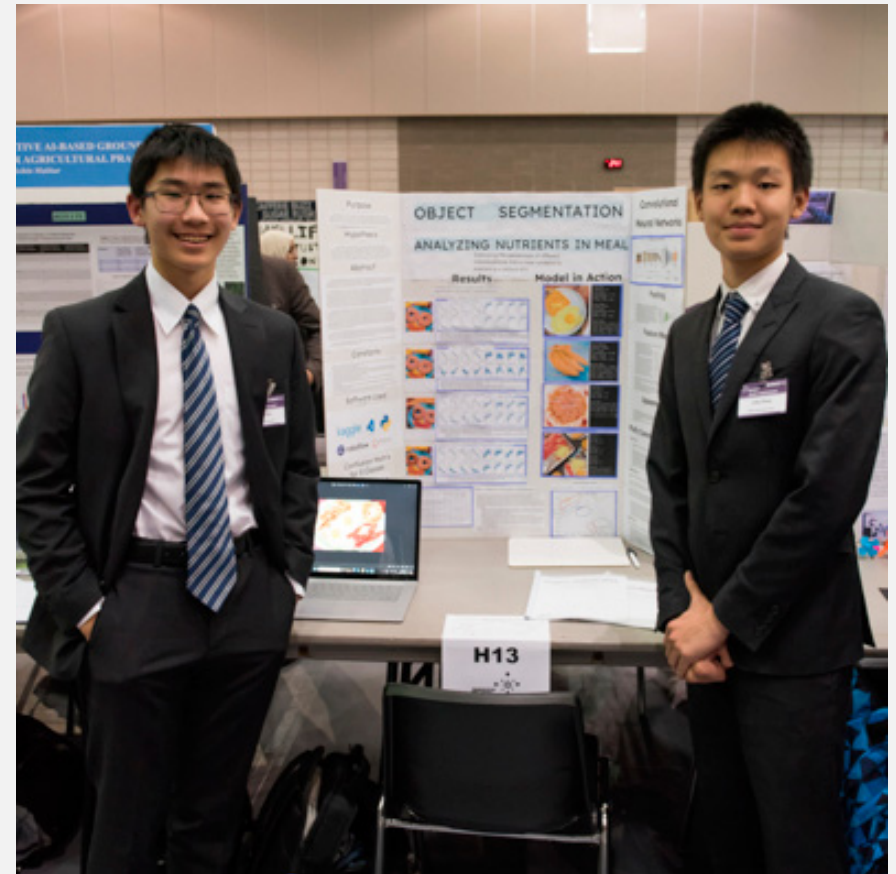
Procor Engineering Award - Intermediate

Daniel Zhu & Cody Zhang

H13

Using Object Segmentation to Analyze Nutrient
Content of Meals

Abbey Park High School
Oakville



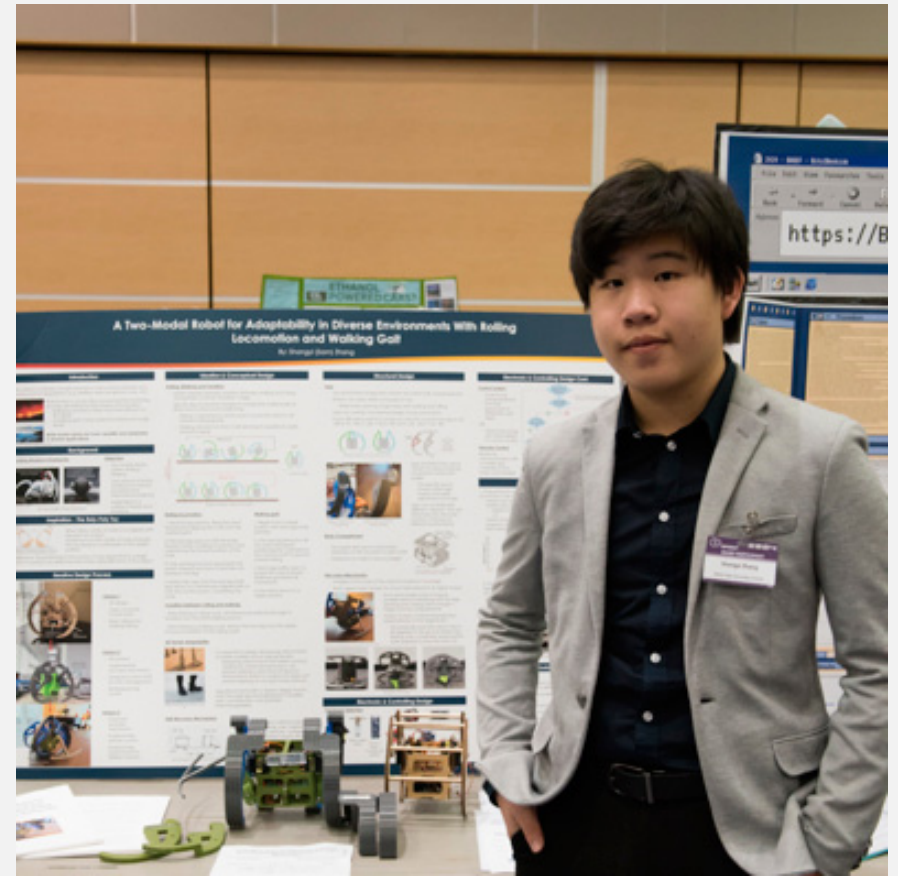
Procor Engineering Award - Senior

Shangyi Zhang

J13

A Two-Modal Robot for Adaptability in Diverse Environments With Rolling Locomotion and Walking Gait

White Oaks Secondary School
Oakville



Rotary Club of Hamilton Stoney Creek Awards



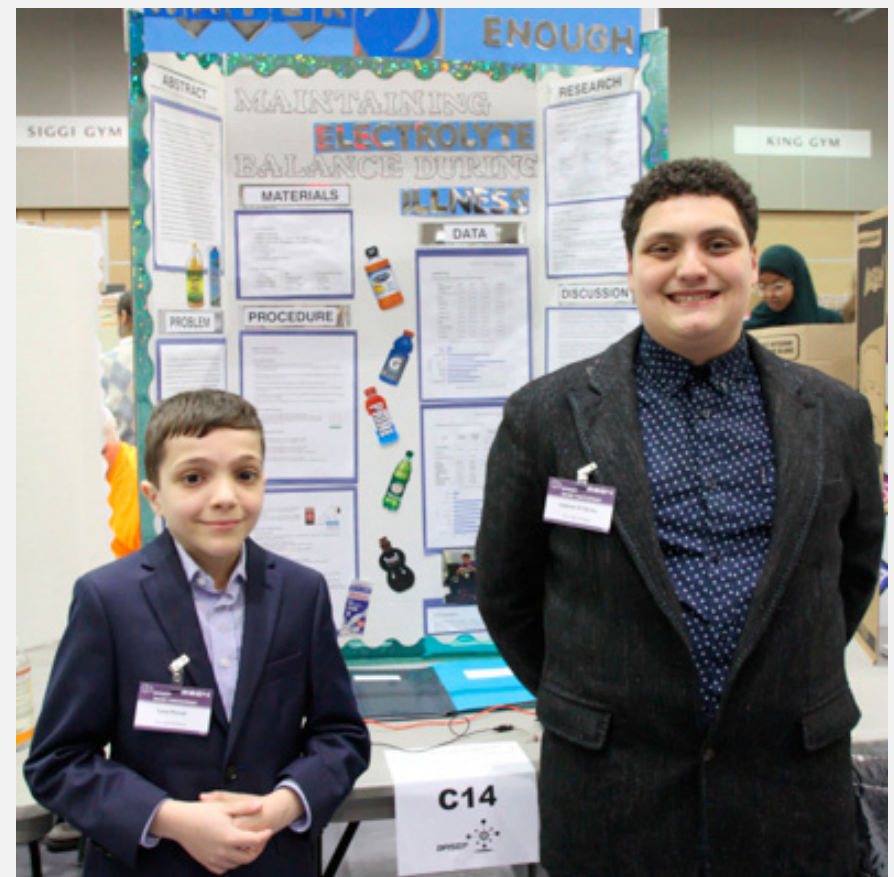
Rotary Club of Hamilton Stoney Creek Award - Third

Luca Piccoli & Gabriel Di Nicola

C14

Water Is Not Enough; Maintaining Electrolyte Balance
During Illness

Our Lady of Peace
Stoney Creek



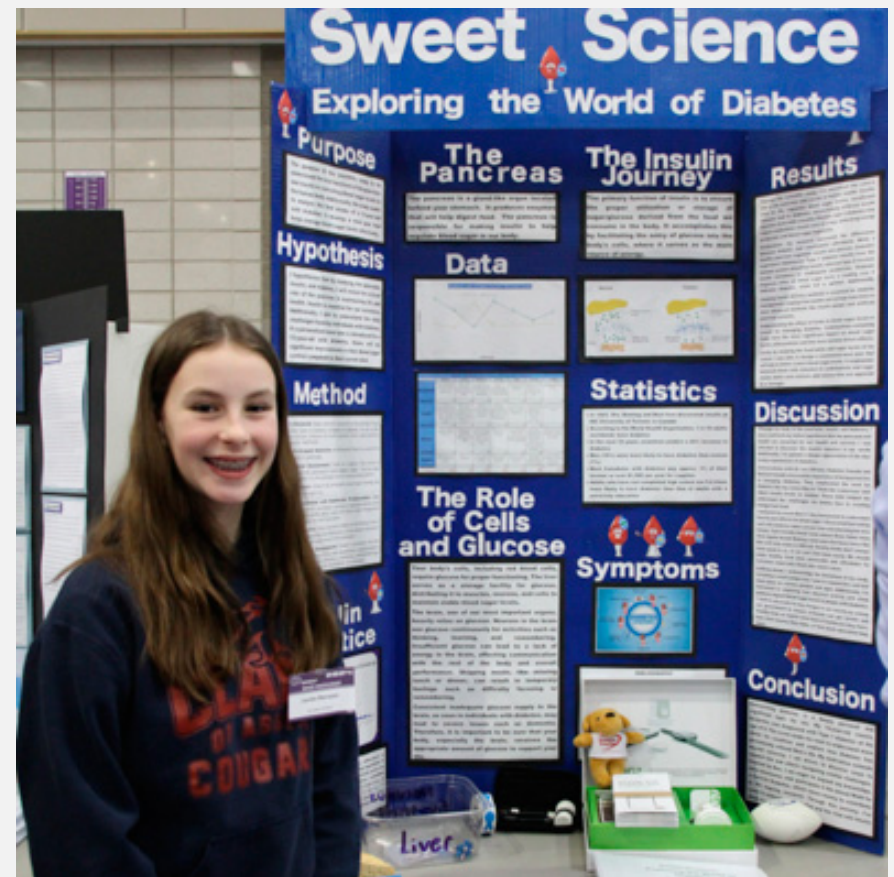
Rotary Club of Hamilton Stoney Creek Award - Second

Lauren Marrazzo

B12

Sweet Science: Exploring the World of Diabetes

St. Clare of Assisi
Stoney Creek



Rotary Club of Hamilton Stoney
Creek Award - First

Hailey Betty

L04
Bio Breakdown

Cathy Wever
Hamilton



Royal Botanical Gardens Award



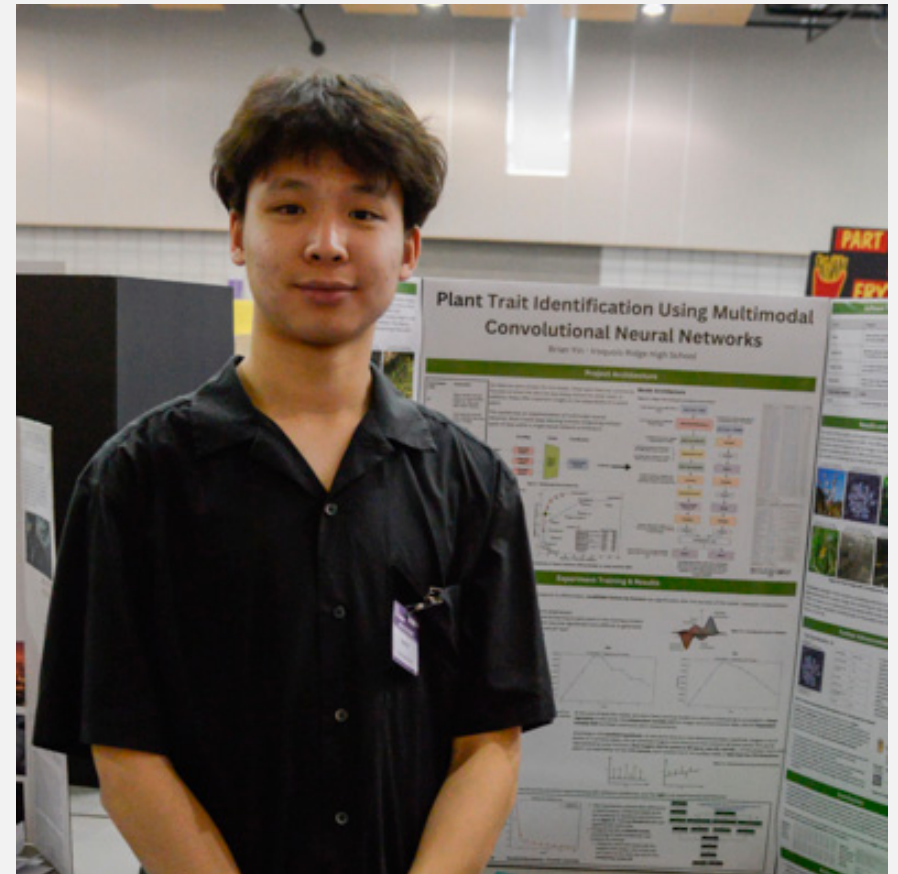
Royal Botanical Gardens Award

Brian Yin

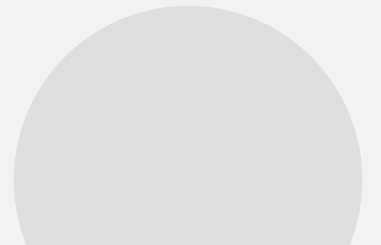
M15

Plant Trait Identification Using Convolutional Neural Networks

Iroquois Ridge High School
Oakville



Sanofi Biogenius Canada Award



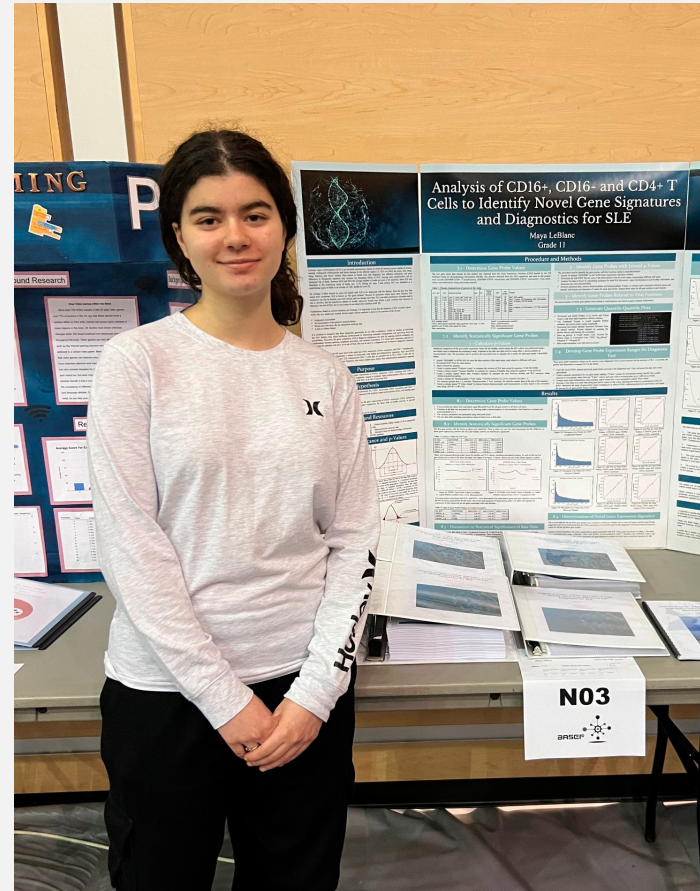
Sanofi Biogenius Canada Award

Maya LeBlanc

N03

Analysis of CD16+, CD16- and CD4+ T Cells to Identify Novel Gene Signatures and Diagnostics for SLE

Abbey Park High School
Oakville



Dr. Nicola Simmons Award in Cognition Studies



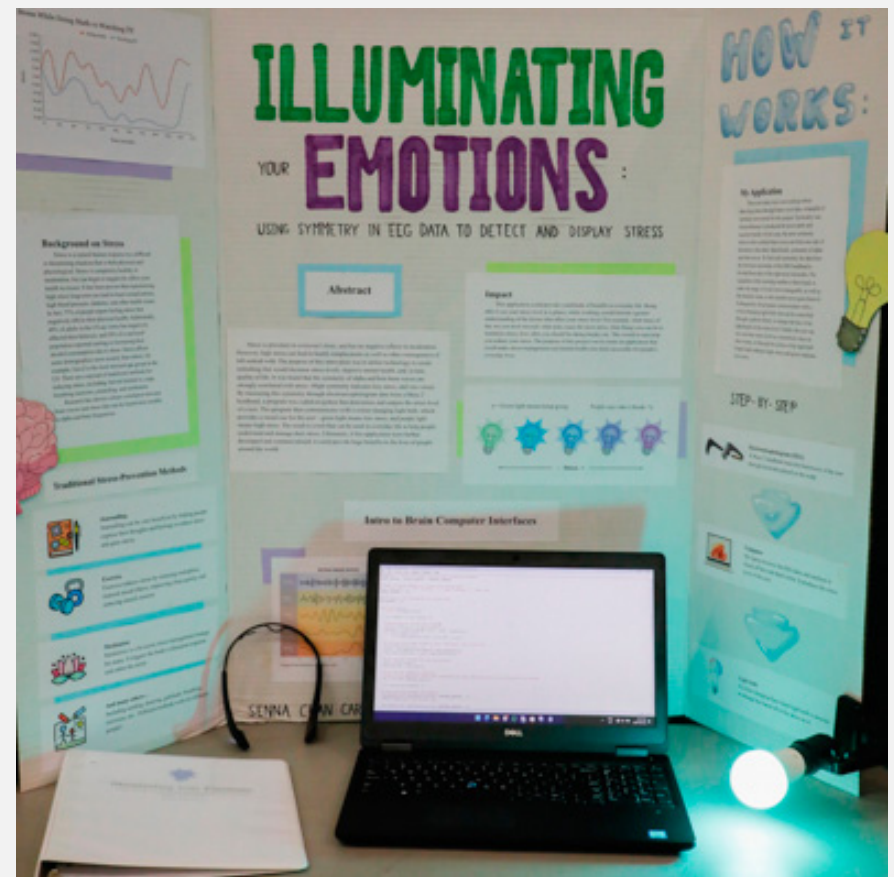
Dr. Nicola Simmons Award in Cognition Studies

Senna Chan Carusone

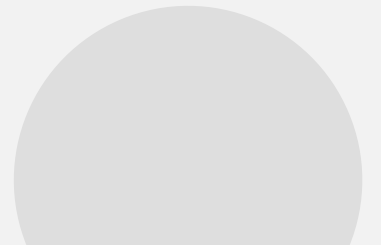
P15

Illuminating Your Emotions: Using Symmetry in
Electroencephalogram Data to Detect and Display
Stress Levels

Burlington Central High School
Burlington



Society of Tribologists & Lubrication Engineers - Hamilton Section Awards



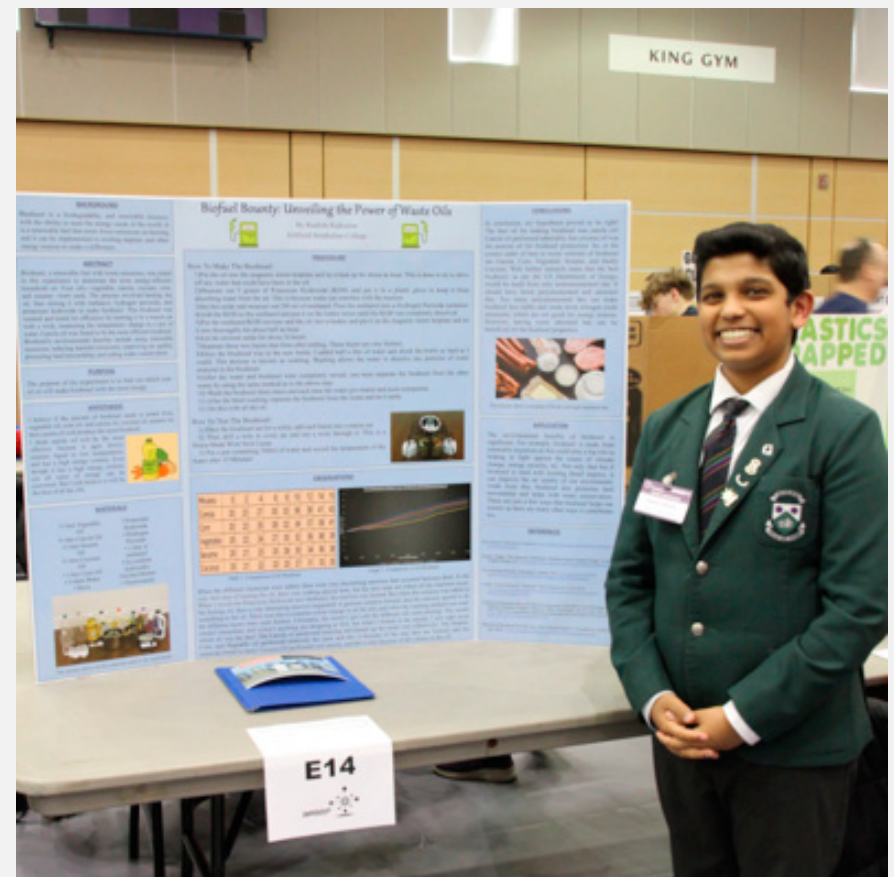
STLE Tribology/Friction Reduction Award

Raahith Rajkumar

E14

Biofuel Bounty: Unveiling the Power of Waste Oils

Hillfield Strathallan College
Hamilton

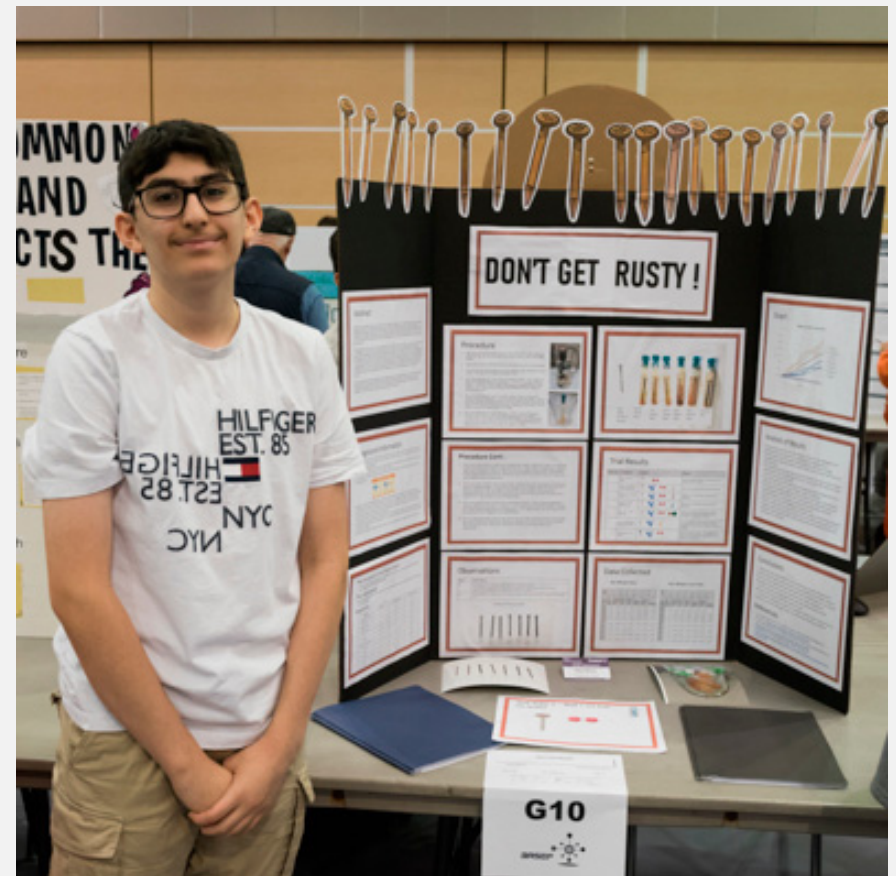


STLE Tribology/Friction Reduction Award

Rayan Mousa

G10
Don't Get Rusty!

Al-Falah Islamic School
Oakville



Talkit.ca Computer Engineering Awards



Talkit.ca Computer Engineering Award - Second

Will Thomas

J14
From Concept to Code

St. Augustine
Dundas



Talkit.ca Computer Engineering Award - First

Bonnie Luo

P05

FlameWatch: A Real-Time TensorFlow and Edge TPU
Powered Home Defense System

White Oaks Secondary School
Oakville



University of Ottawa Admission Scholarship



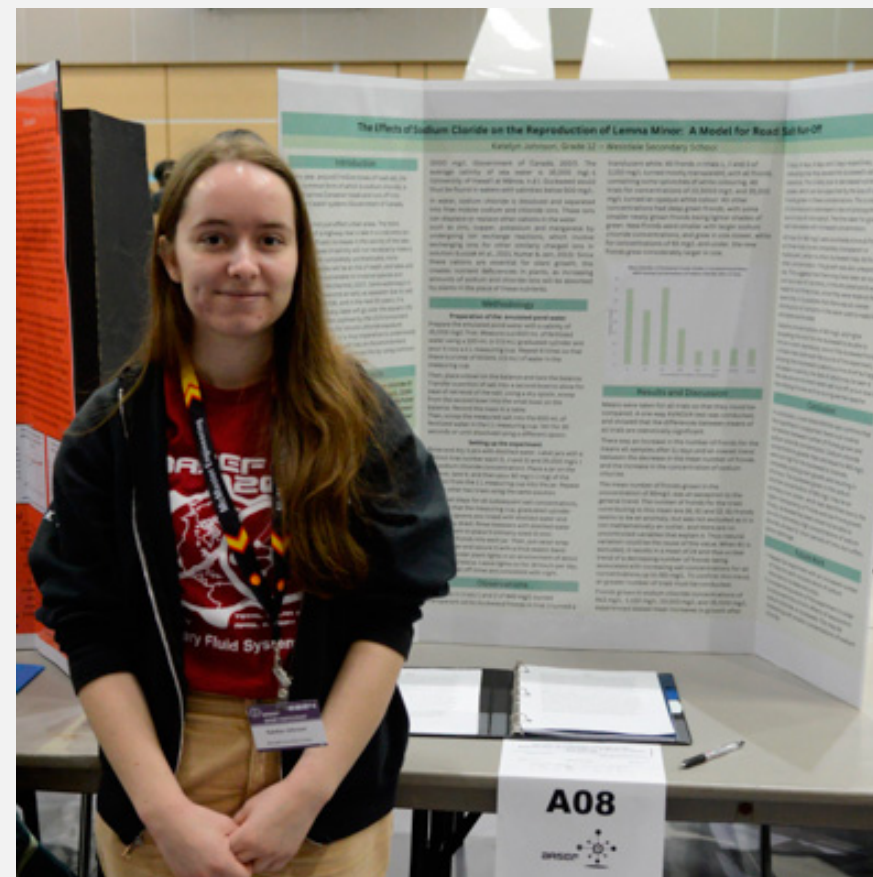
University of Ottawa Admission Scholarship Award

Katelyn Johnson

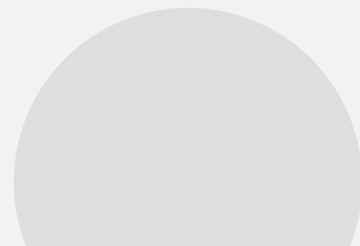
A08

The Effects of Sodium Chloride on the Reproduction
of Lemna Minor: A Model for Road Salt Run-Off

Westdale Secondary School
Hamilton



Venture Academy at McMaster University Awards



Venture Academy Scholarship

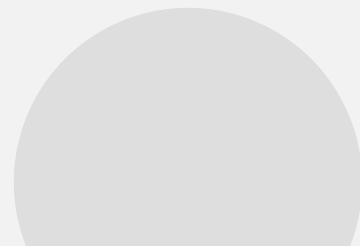
Alena Morales & Kayla Schubert

B16
Older than Osmosis

Rolling Meadows Public School
Burlington



Water Environment Association of Ontario Award

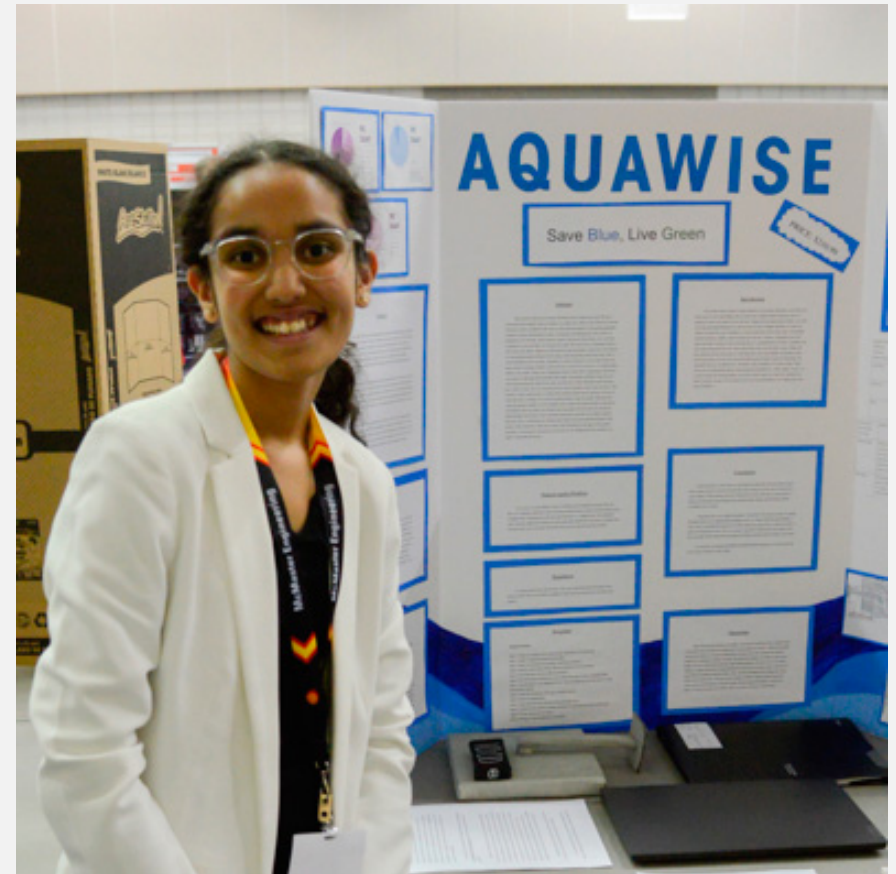


Water Environment Association of Ontario Award

Tiara Jain

M10
AquaWise

John William Boich Public School
Burlington



BASEF Inspiration Student Awards



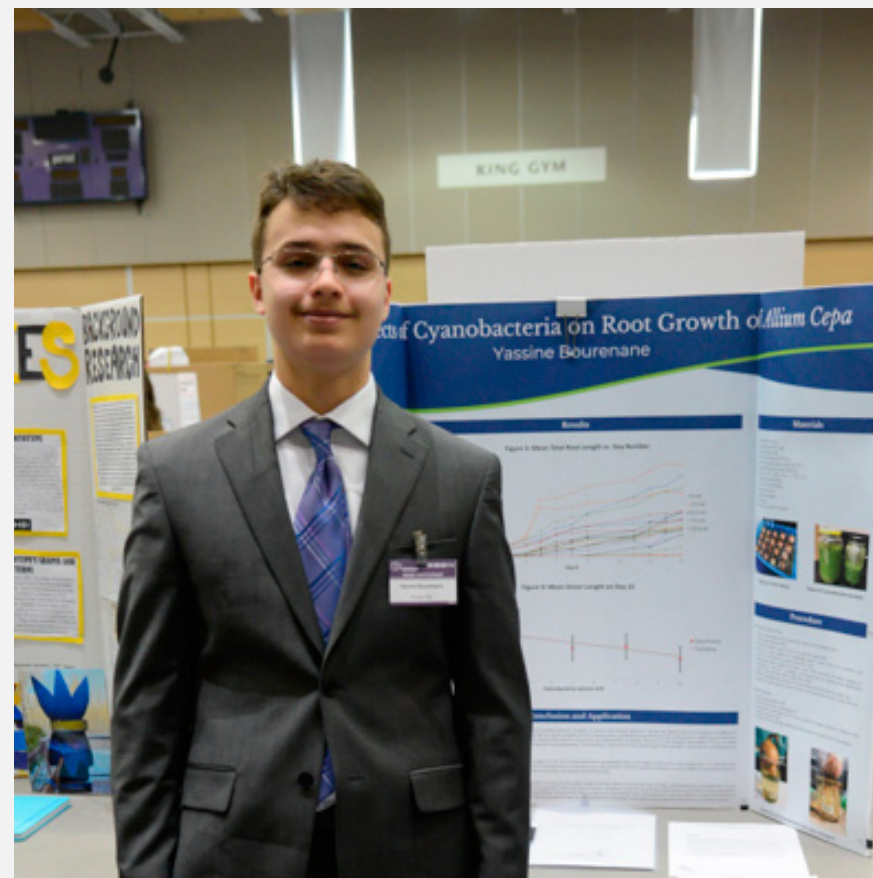
BASEF Inspiration Student Award

Yassine Bourenane

A03

The Effects of Cyanobacteria on Root Growth of
Allium Cepa

Ancaster High
Ancaster



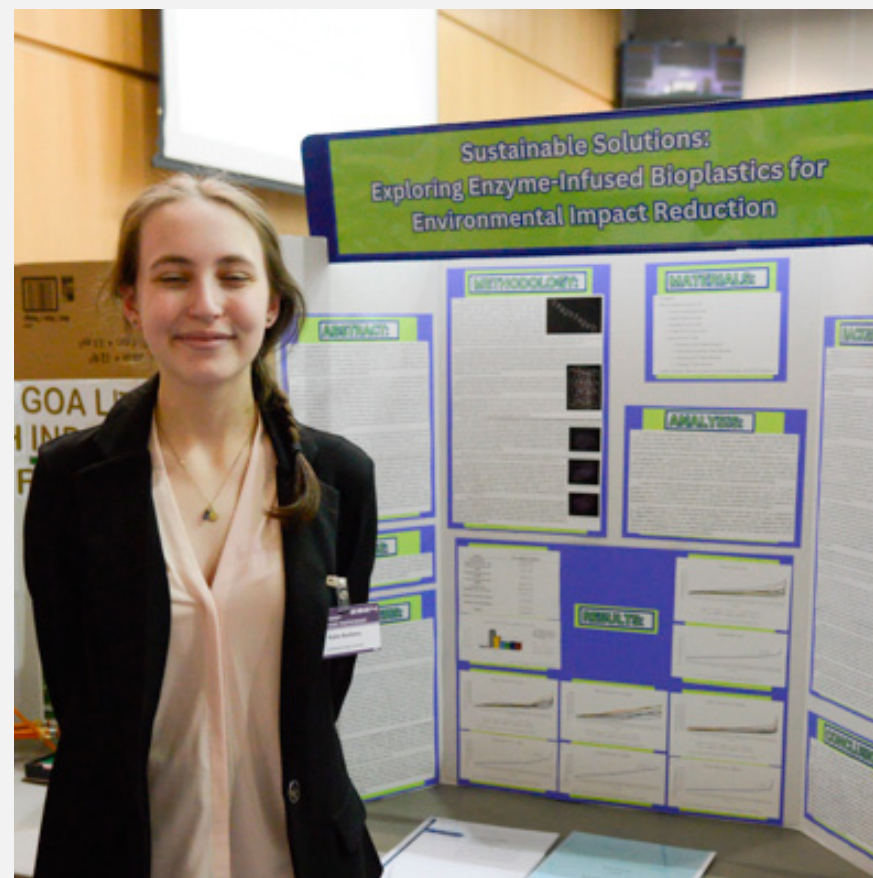
BASEF Inspiration Student Award

Katie Barbera

M02

Sustainable Solutions: Exploring Enzyme-Infused Bioplastics for Environmental Impact Reduction

Cathedral High School
Hamilton



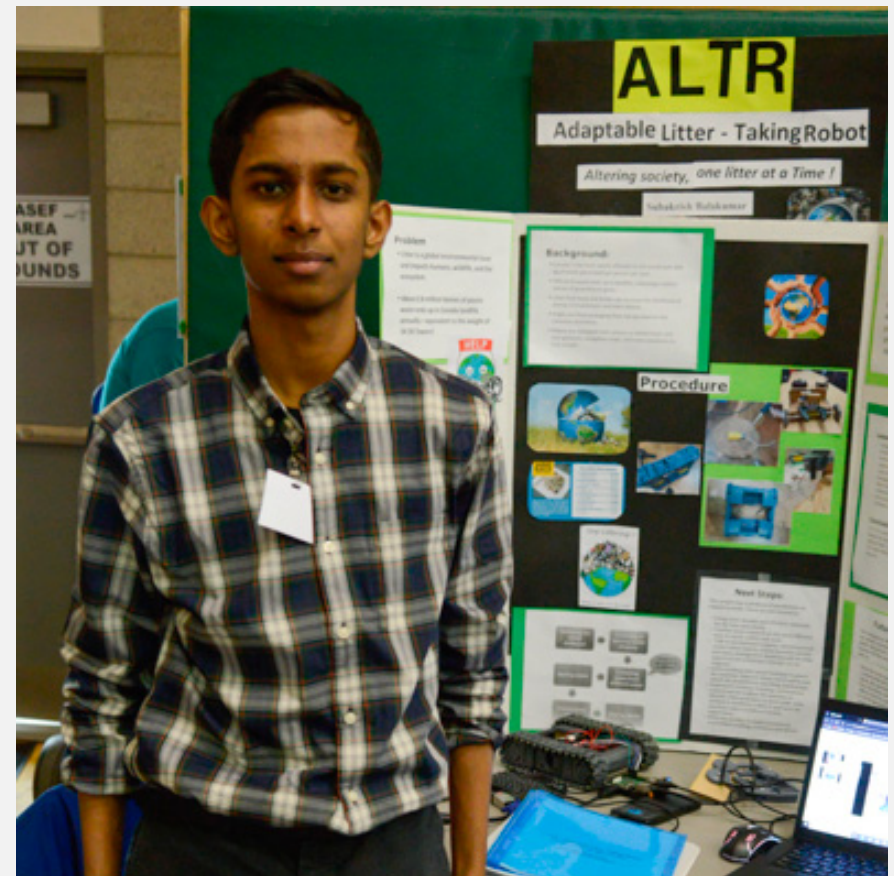
BASEF Inspiration Student Award

Subakrish Balakumar

P01

A.L.T.R. 'Altering society, one litter at a time'

Aldershot High School
Burlington



BASEF Inspiration Student Award

Jonathan Vidican

J15

Chaos, break the wave!

St. Mary Elementary School
Oakville



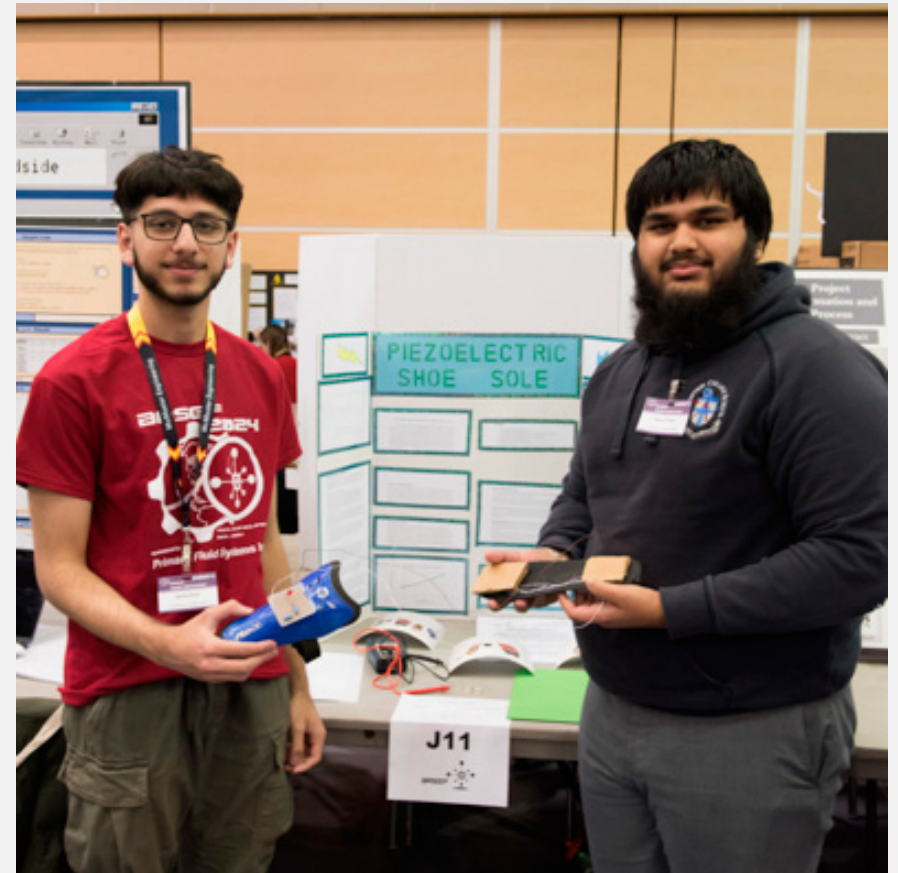
BASEF Inspiration Student Award

Navraj Patial & Mohid Khan

J11

Harnessing the power of Peizoelectricity for
Sustainable Energy

Assumption College School
Brantford



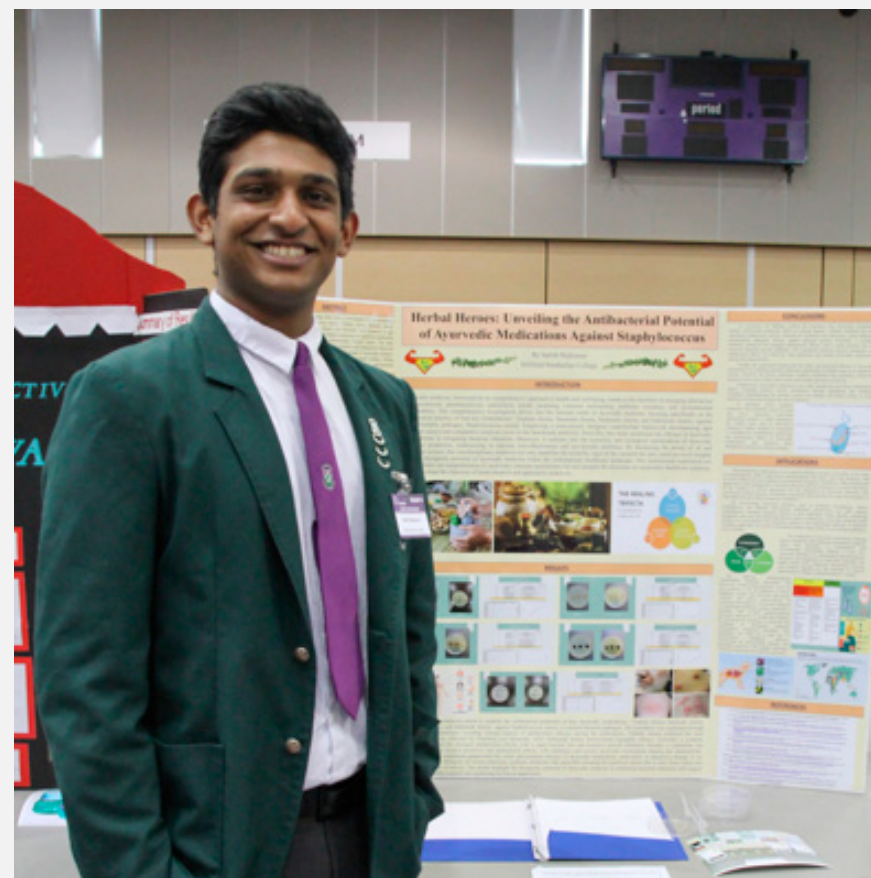
BASEF Inspiration Student Award

Sahith Rajkumar

E15

Herbal Heroes: Unveiling the Antibacterial Potential of
Ayurvedic Medications Against Staphylococcus

Hillfield Strathallan College
Hamilton



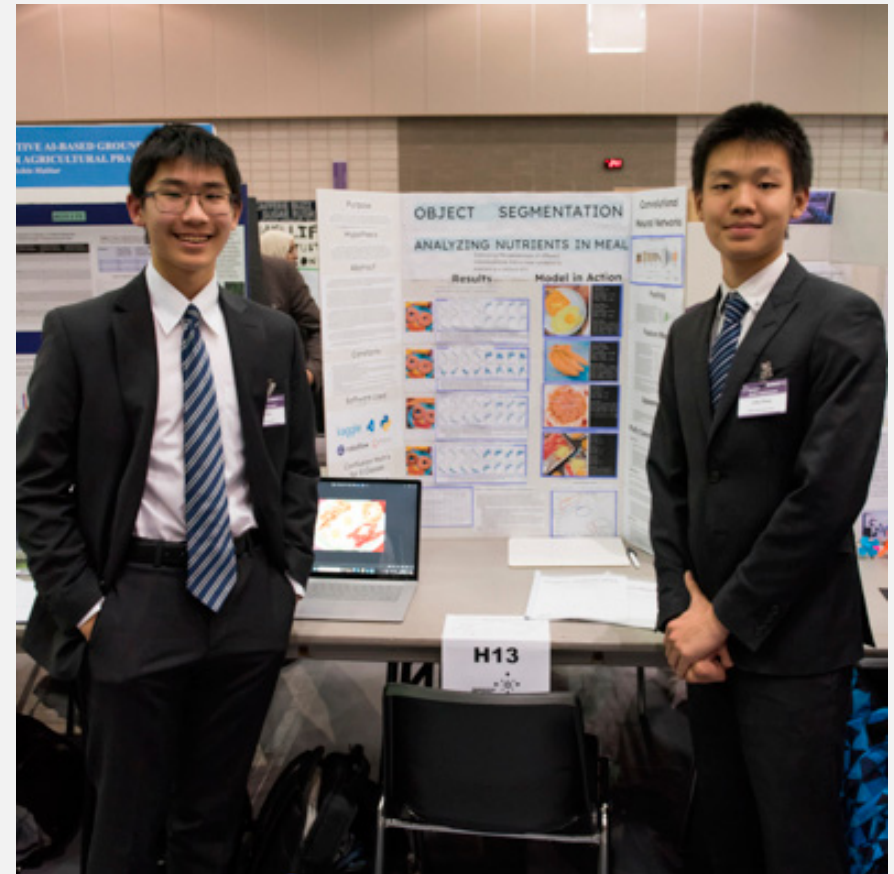
BASEF Inspiration Student Award

Daniel Zhu & Cody Zhang

H13

Using Object Segmentation to Analyze Nutrient
Content of Meals

Abbey Park High School
Oakville



BASEF Inspiration Student Award

Maria Polyanska

H15

Extending range of VHF/UHF transceivers by improving antenna efficiency for emergency communications

Forest Trail Public School
Oakville

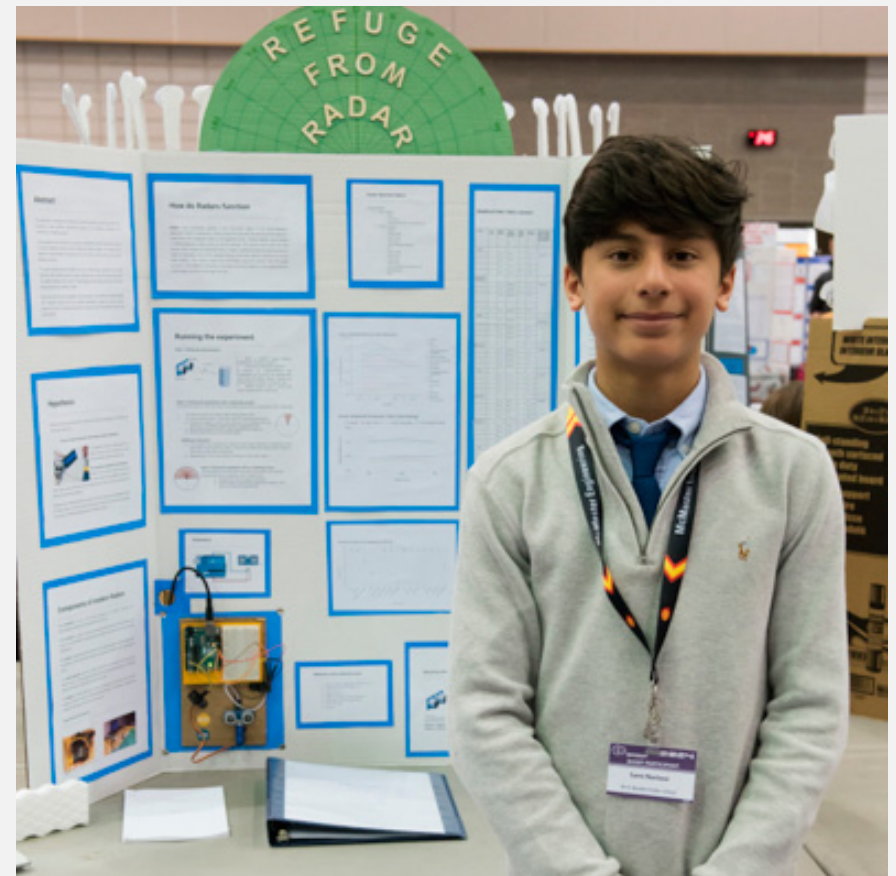


BASEF Inspiration Student Award

Sami Nastase

H10
Refuge from Radars

W. H. Morden Public School
Oakville



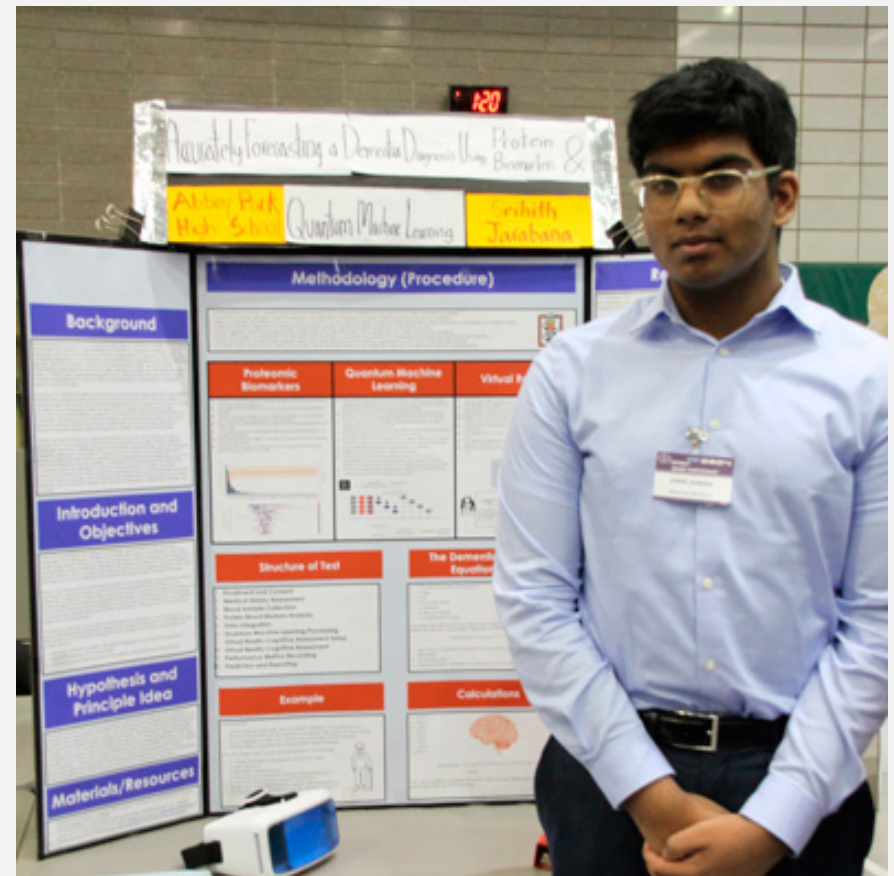
BASEF Inspiration Student Award

Srihith Jarabana

B13

Accurately Forecasting a Dementia Diagnosis Using Protein Biomarkers and Quantum Machine Learning

Abbey Park High School
Oakville



BASEF Inspiration Student Award

Ruofei Wu & Jaylan Tayal

N18

GreenHound - Your Personal Litter Tracker For a Greener Future

John William Boich Public School
Burlington



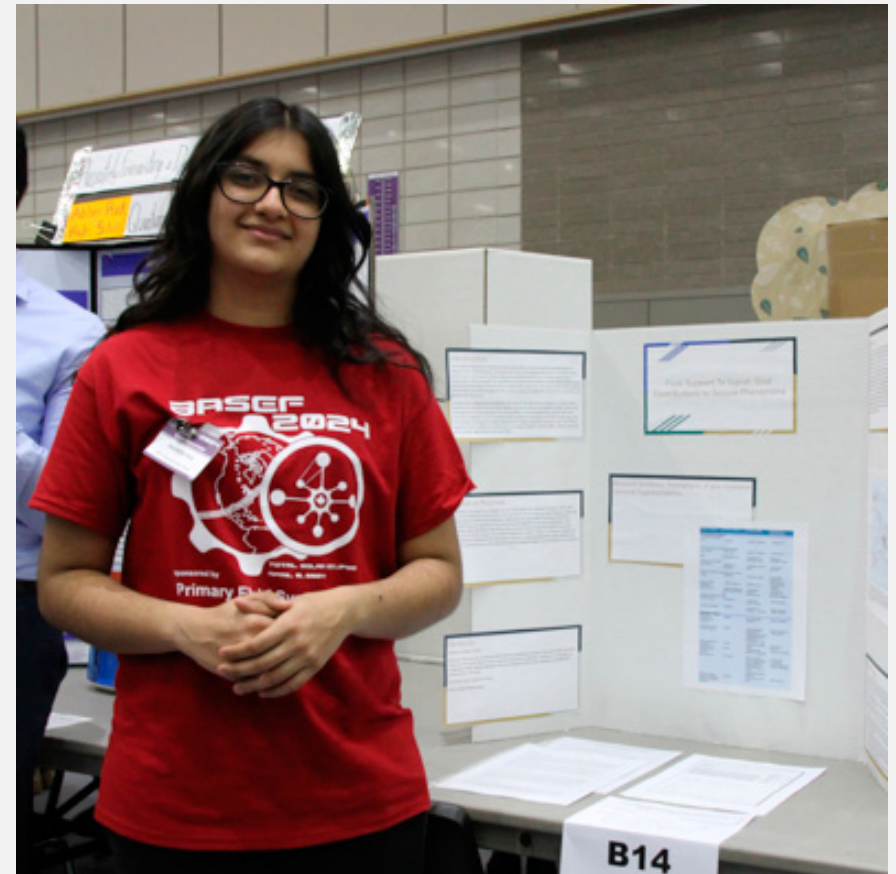
BASEF Inspiration Student Award

Shambhvi Dua

B14

Decoding Brainwaves: A Machine Learning Approach
to Seizure Prediction

White Oaks Secondary School
Oakville



BASEF Inspiration Student Award

Emmalina Abou-Assaleh & Sahana Merchant

K06

The Power and Potential of Electromagnetic Radiation

W. H. Morden Public School
Oakville



BASEF Inspiration Student Award

Arya De Souza & Emma Su

A05

Back to the Water - Creating 3D Printed Prosthetics
for Painted Turtles

W. H. Morden Public School
Oakville



BASEF Inspiration Teacher Awards

Recognizing Teachers

New to BASEF

\$500 for use in the teacher's classroom



Ijial Syed

Blyth Academy

Lenora Sawyer

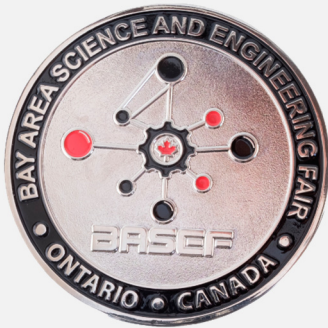
Delhi District Secondary School (GEDSB)

Paul Cushing

Holy Trinity Secondary School (HCDSB)

Gregory Kay

Rattlesnake Point Public School (HDSB)



Merit Awards



Merit Awards

Sponsored by:



ArcelorMittal

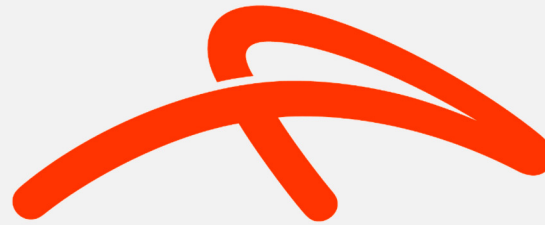
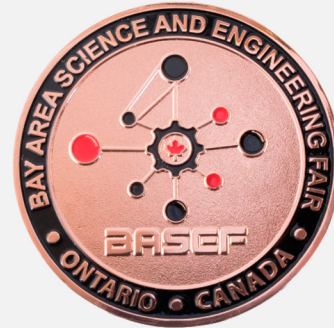
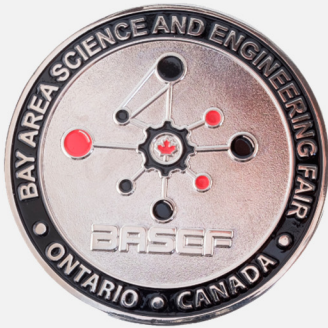


23	25	26	27	28	30	31	32	33
27	29	30	31	32	34	35	36	37
33	34	35	36	38	39	40	41	
37	38	39	40	42	43	44	45	
<p>NOT FOLD. Use this</p>								<p>Score: 44</p>
<p>A</p>								



Award of Excellence Tuition Scholarships
of
\$1000



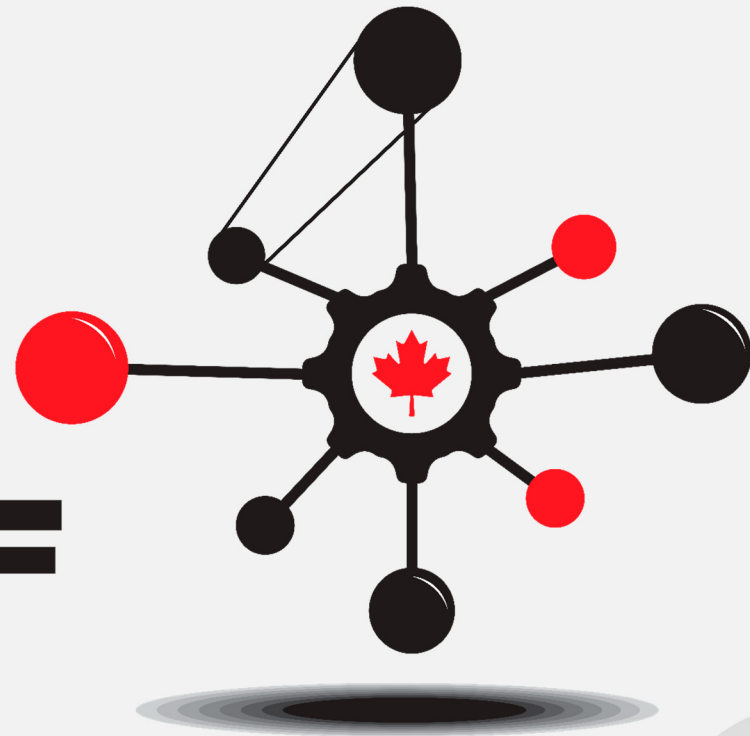


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Bronze Merit Awards



BASEF





Bronze

Lily Liaghati

A04

Busier Bees: Increasing Productivity in Bees

Munn's Public School
Oakville



ArcelorMittal



Bronze

Clare Castelli & Simon Castelli

A06
Germs at School

St. Augustine
Dundas



ArcelorMittal





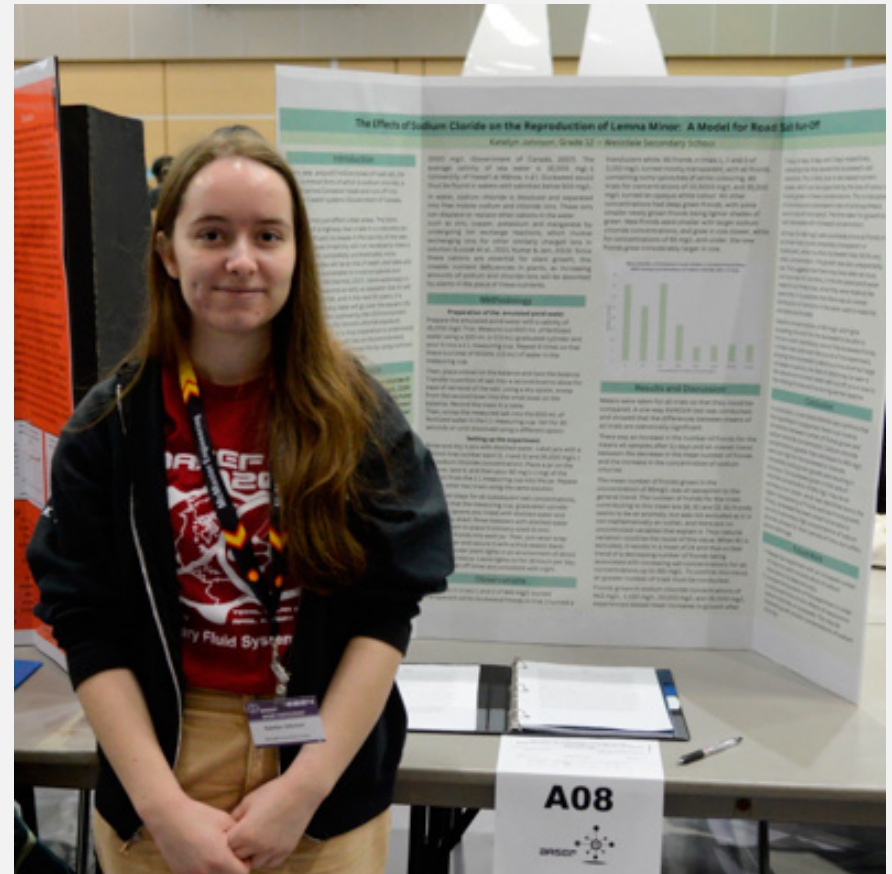
Bronze

Katelyn Johnson

A08

The Effects of Sodium Chloride on the Reproduction of Lemna Minor: A Model for Road Salt Run-Off

Westdale Secondary School
Hamilton



ArcelorMittal



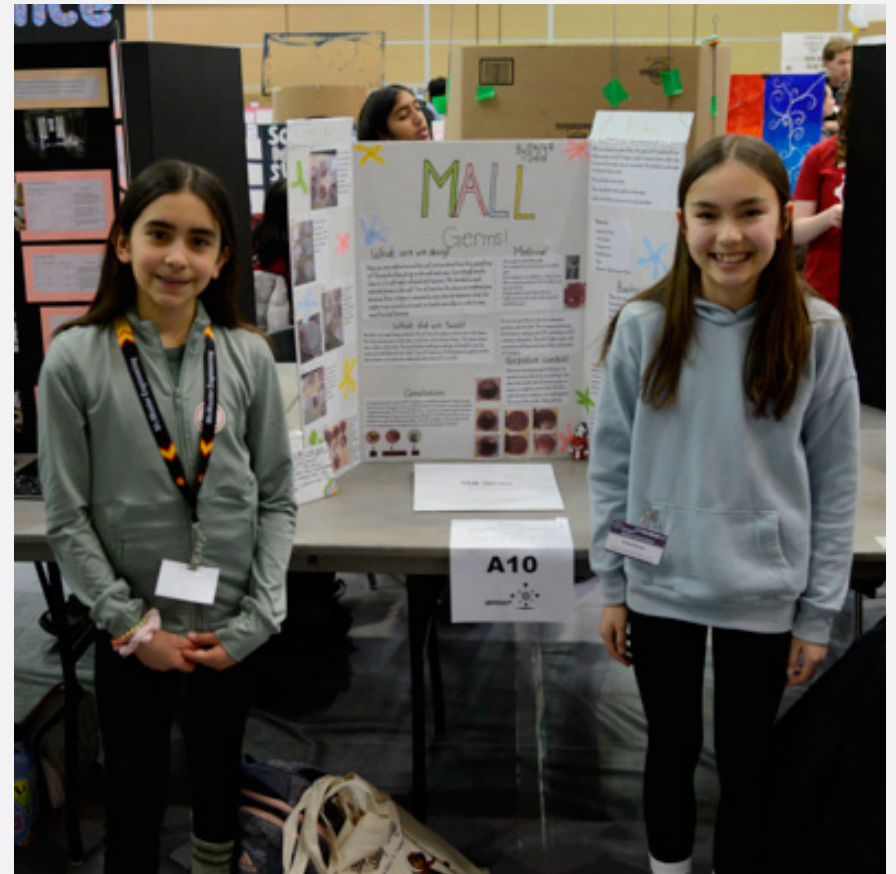


Bronze

Sofia Mejia Perfiliev & Emily Berger

A10
Mall Bacteria

Charles R. Beaudoin Public School
Burlington



ArcelorMittal





Bronze

Calla Alden

A11
Canine Intelligence

Ancaster Meadow
Ancaster



ArcelorMittal



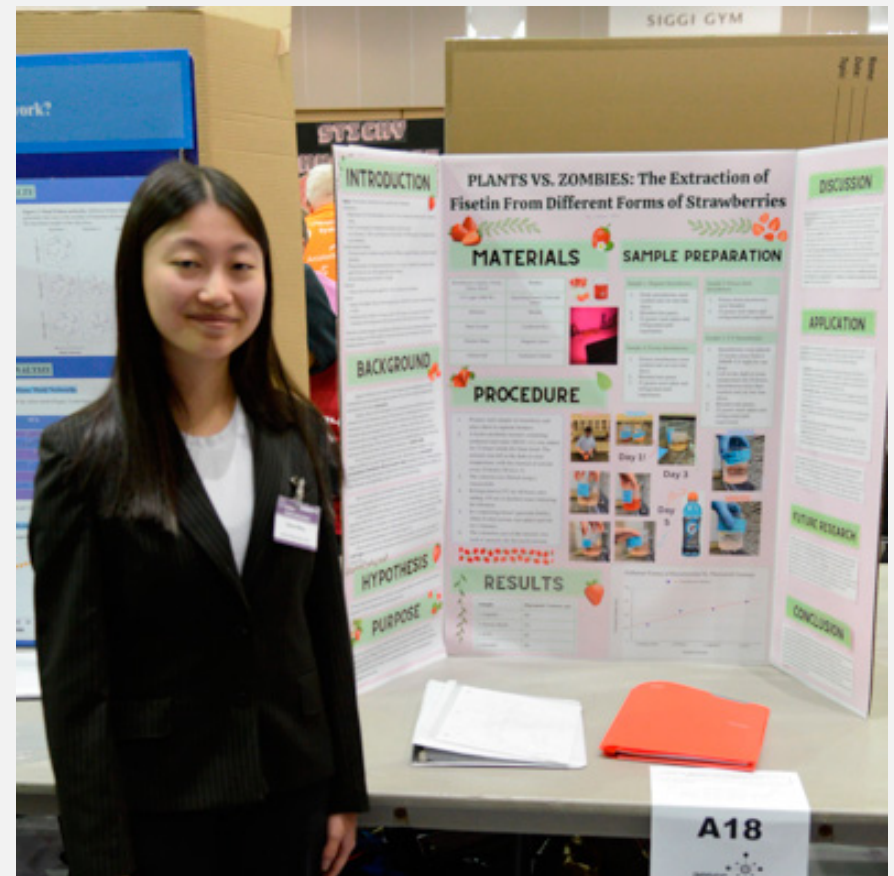
Bronze

Season Wang

A18

Plants Vs. Zombies: The Extraction of Fisetin from Different Forms of Strawberries

Oakville Trafalgar High School
Oakville



ArcelorMittal





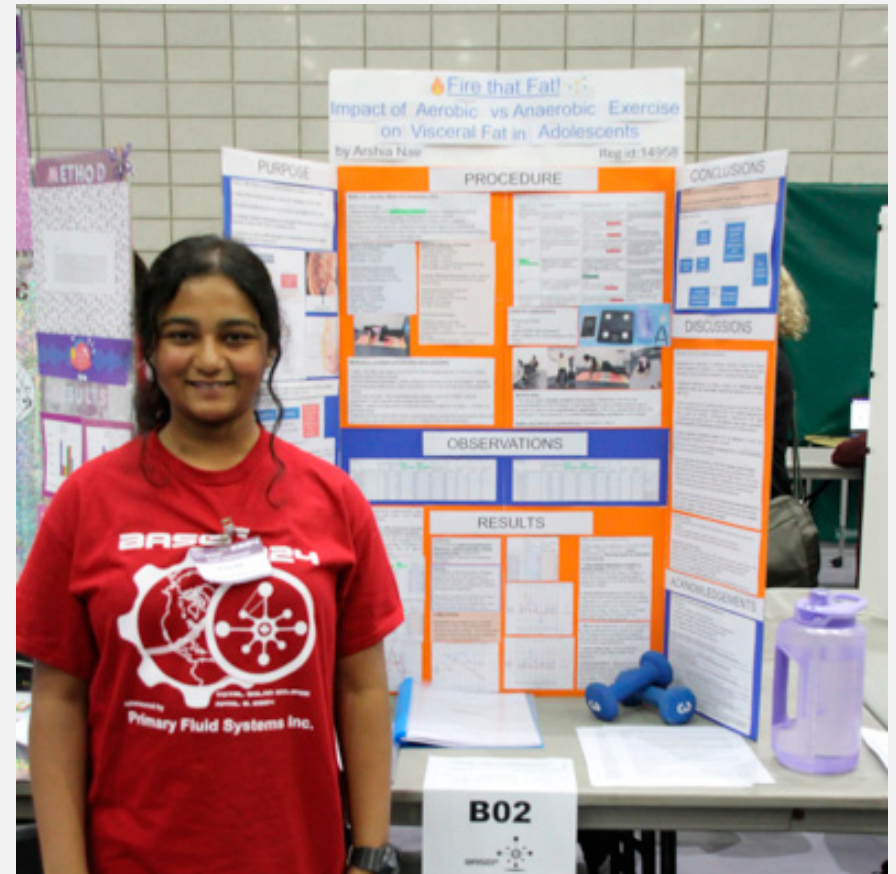
Bronze

Arshia Nair

B02

Fire that Fat! : Impact of Aerobic vs Anaerobic Exercise
on Visceral Fat in Adolescents

Tiger Jeet Singh Public School
Milton



ArcelorMittal





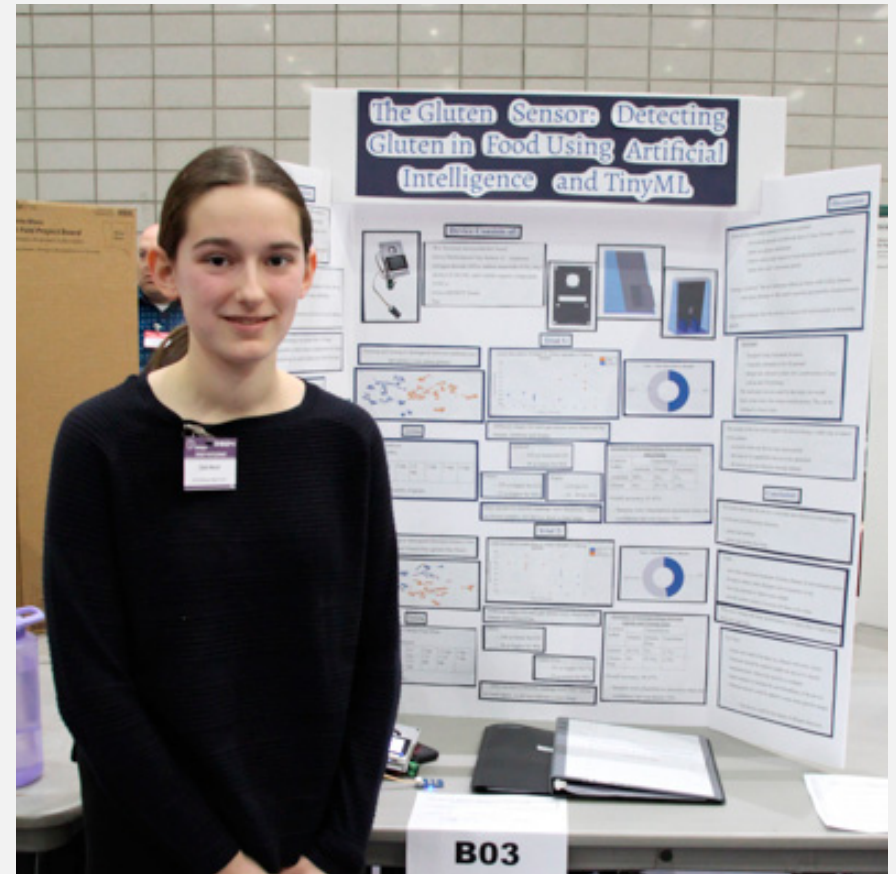
Bronze

Claire Marsh

B03

The Gluten Sensor: Detecting Gluten in Food Using Artificial Intelligence and TinyML

M. M. Robinson High School
Burlington



ArcelorMittal





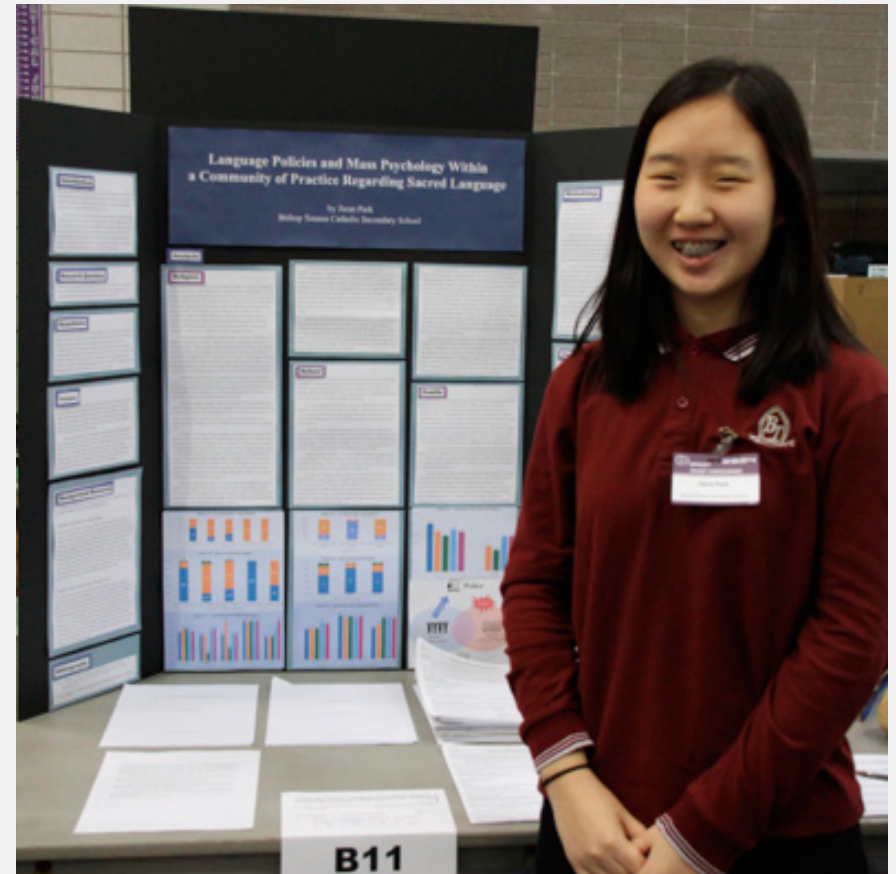
Bronze

Jieun Park

B11

Language Policies and Mass Psychology Within a
Community of Practice Regarding Sacred Language

Bishop Tonnos Secondary School
Ancaster



ArcelorMittal





Bronze

Lauren Marrazzo

B12

Sweet Science: Exploring the World of Diabetes

St. Clare of Assisi
Stoney Creek



ArcelorMittal





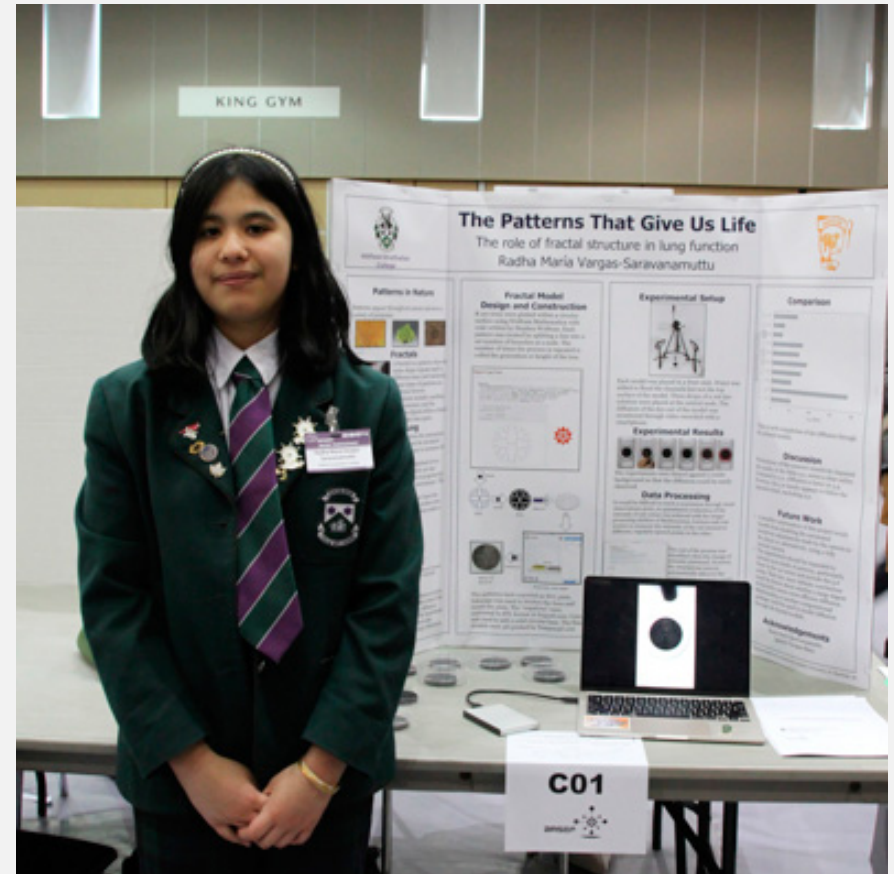
Bronze

Radha Maria Vargas-Saravanamuttu

C01

The Patterns that Give Us Life: The Role of Fractal Structure in Lung Function

Hillfield Strathallan College
Mount Hope



ArcelorMittal





Bronze

Luca Piccoli & Gabriel Di Nicola

C14

Water Is Not Enough; Maintaining Electrolyte Balance
During Illness

Our Lady of Peace
Stoney Creek



ArcelorMittal





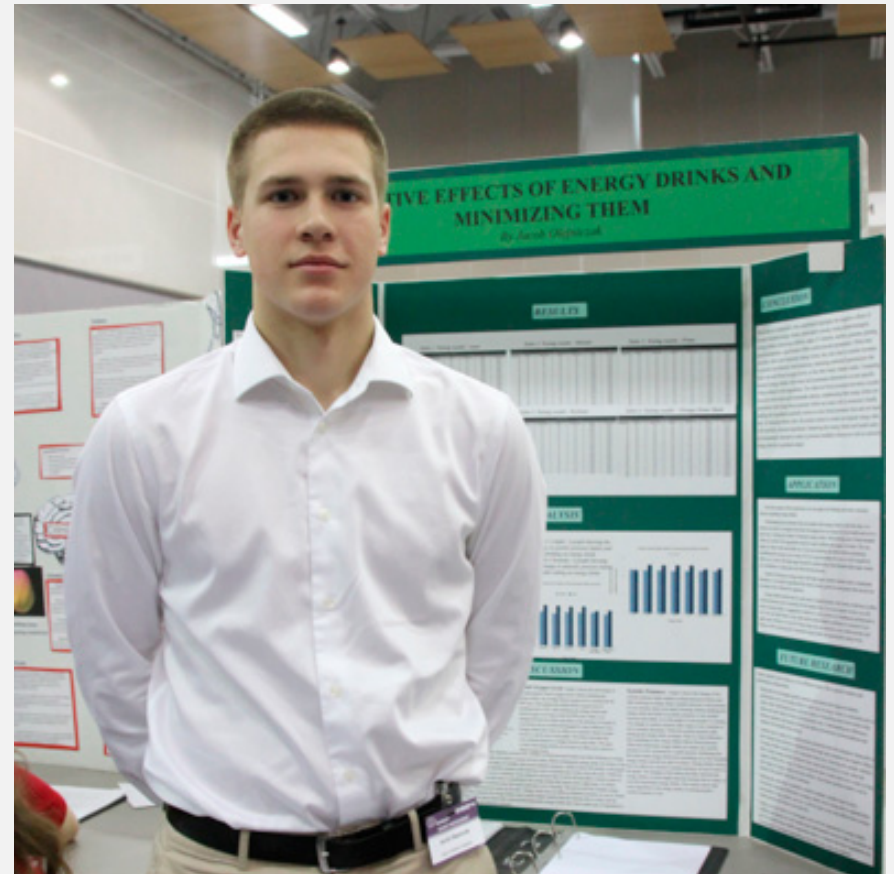
Bronze

Jacob Olejniczak

C17

Negative Effects of Energy Drinks and Minimizing Them

King's Christian Collegiate
Oakville



ArcelorMittal





Bronze

Sofia Bhatti

C19
Sticky Knowledge

Al-Falah Islamic School
Oakville



ArcelorMittal





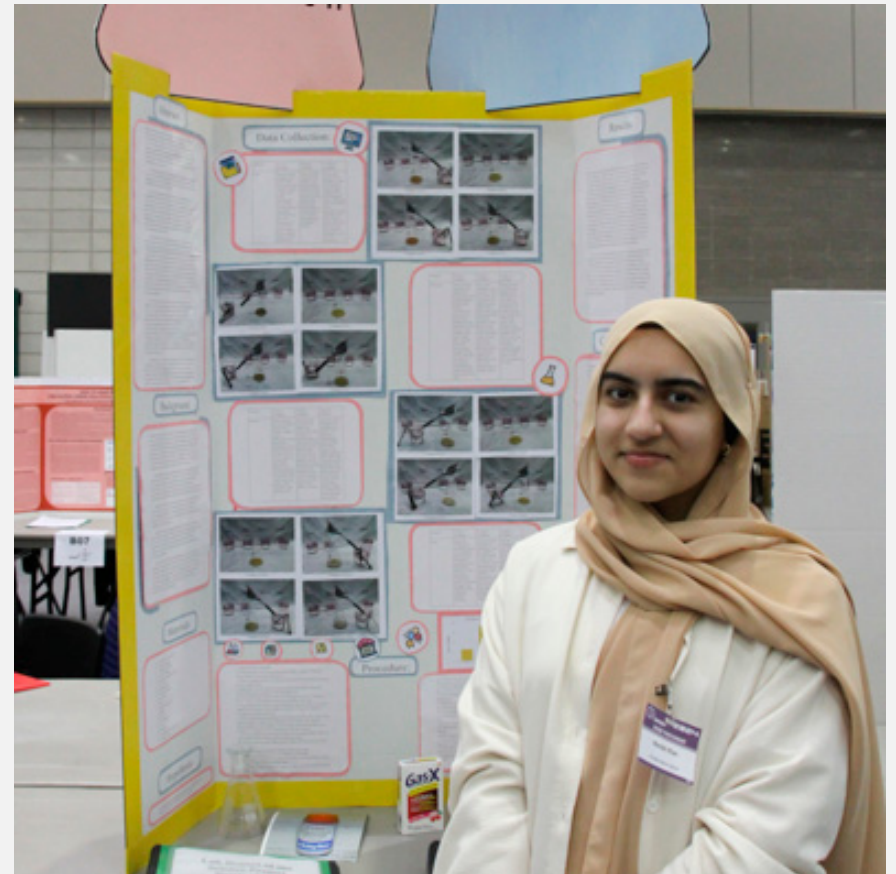
Bronze

Wardah Khan

D08

Battle of the Stomach: Antacids vs Acid

Al-Falah Islamic School
Oakville



ArcelorMittal





Bronze

Abiha Faisal

D11

Caffeine Buzz and Sugar Rush: Exploring the Night's Hush

Rattlesnake Point Public School
Milton



ArcelorMittal





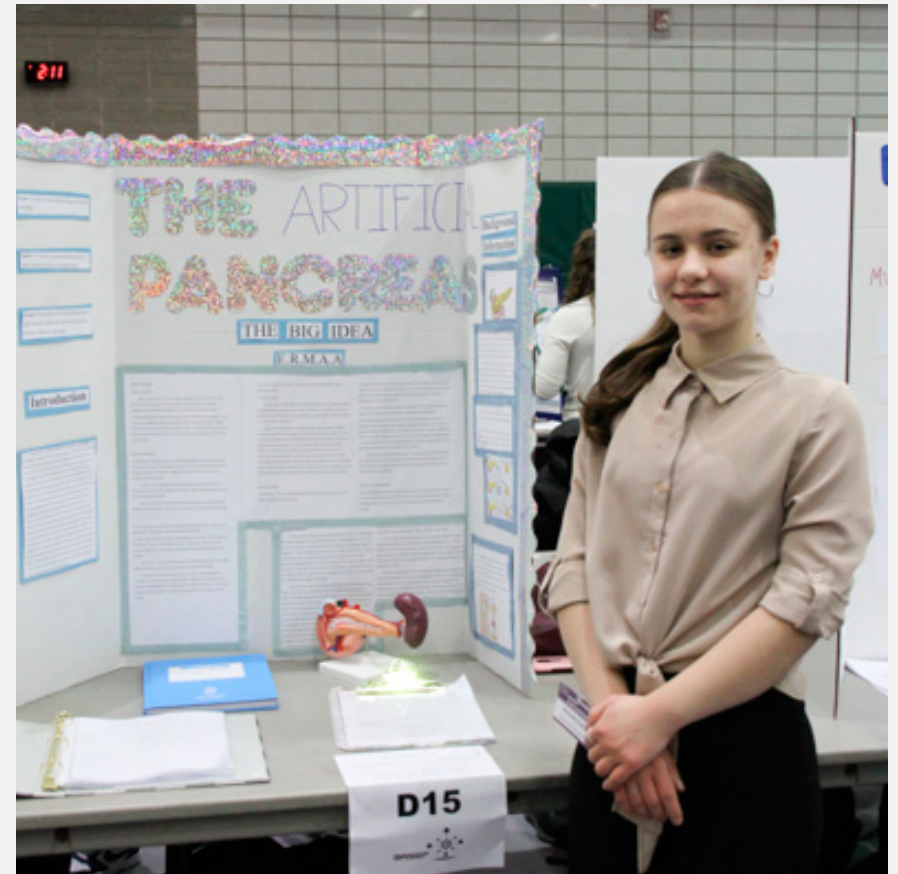
Bronze

Weronika Szymala

D15

The Artificial Pancreas

Bishop Ryan Secondary School
Hamilton



ArcelorMittal





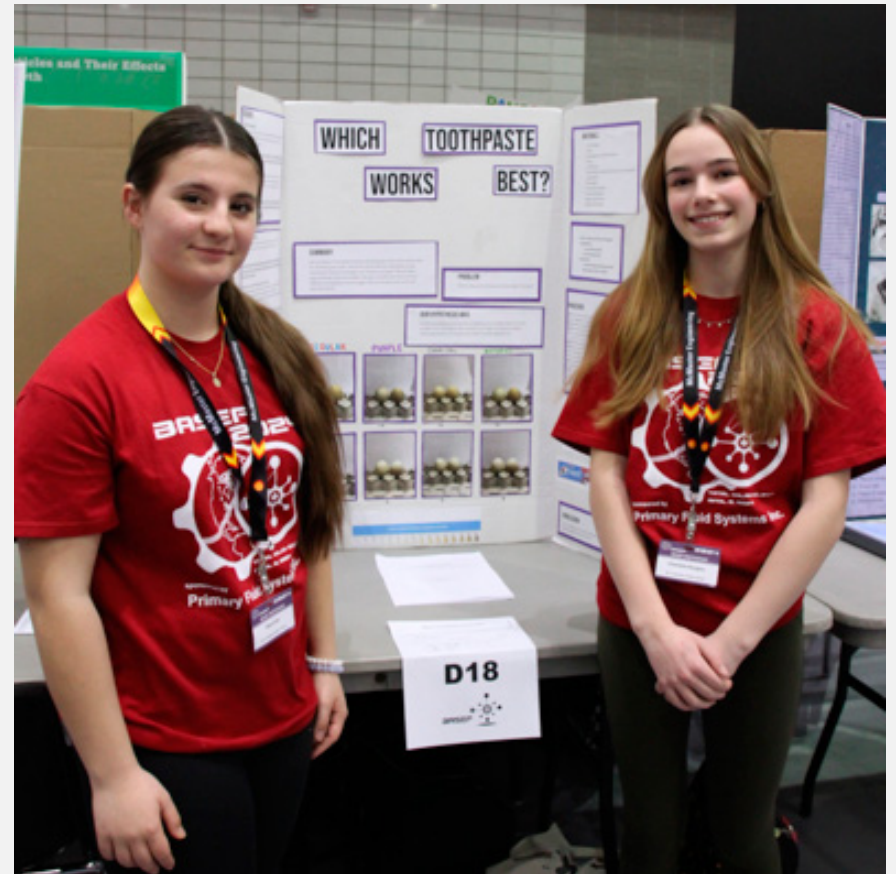
Bronze

Vlera Cani & Charlotte Burgess

D18

Which toothpaste works best?

W. H. Morden Public School
Oakville



ArcelorMittal





Bronze

Zina Akwiwu

E01

Are Fingerprint Patterns Inherited?

St. Thomas the Apostle (Waterdown)
Waterdown



ArcelorMittal





Bronze

Nicholas Hart

E04

How Organic is Too Organic???

Charles R. Beaudoin Public School
Burlington



ArcelorMittal





Bronze

Andrew Lotfi & Nevin Patel

E09
Green Clean

Oakville Christian School
Oakville



ArcelorMittal





Bronze

Prathamesh Perlawar

E10

Green Solutions: Transforming Food Waste into Bioplastic

White Oaks Secondary School
Oakville



ArcelorMittal





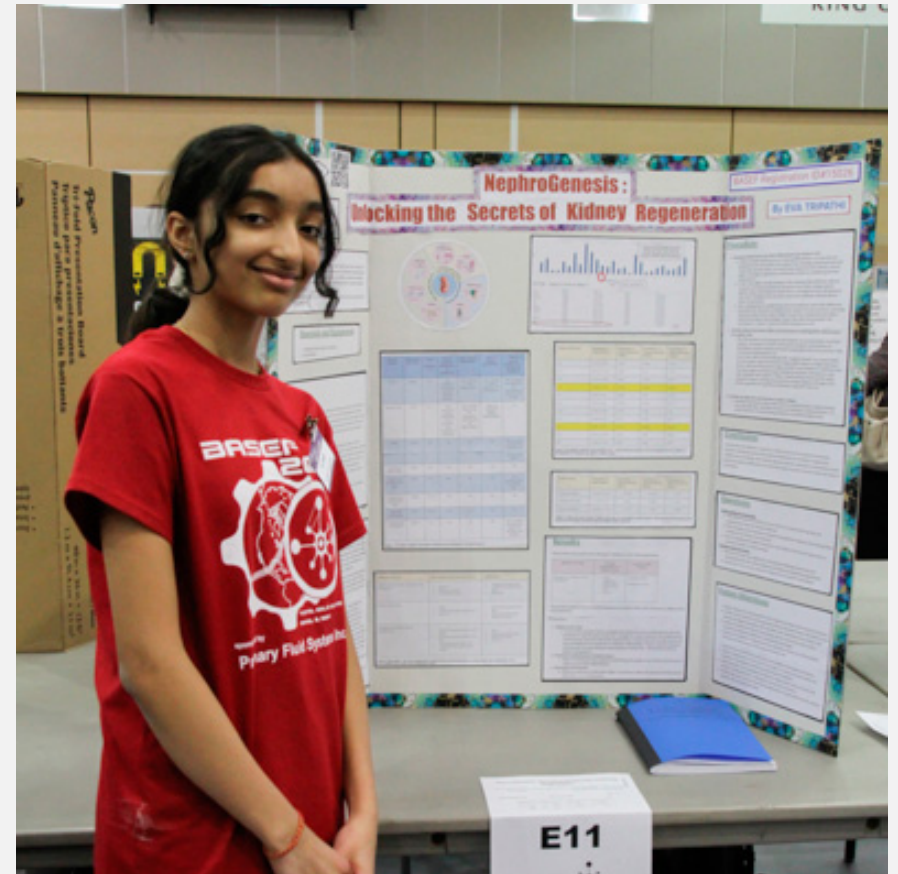
Bronze

Eva Tripathi

E11

NephroGenesis: Unlocking the Secrets of Kidney Regeneration

Elsie Macgill Secondary School
Milton



ArcelorMittal





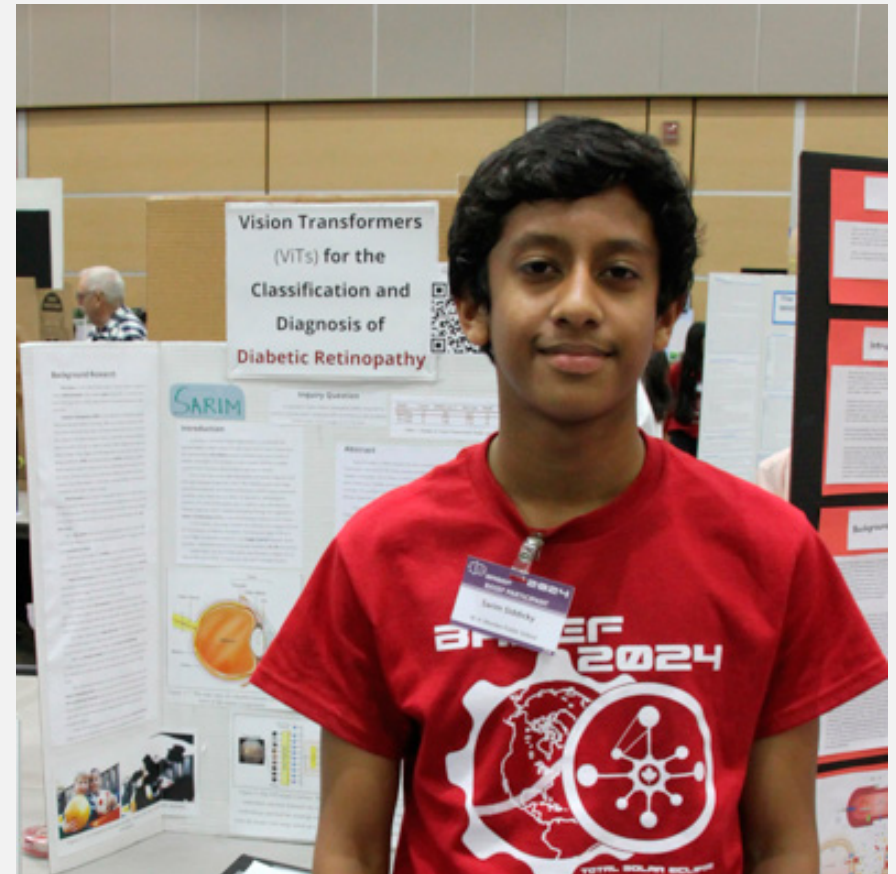
Bronze

Sarim Siddicky

E18

Vision Transformers (ViTs) for the Diagnosis of
Diabetic Retinopathy

W. H. Morden Public School
Oakville



ArcelorMittal





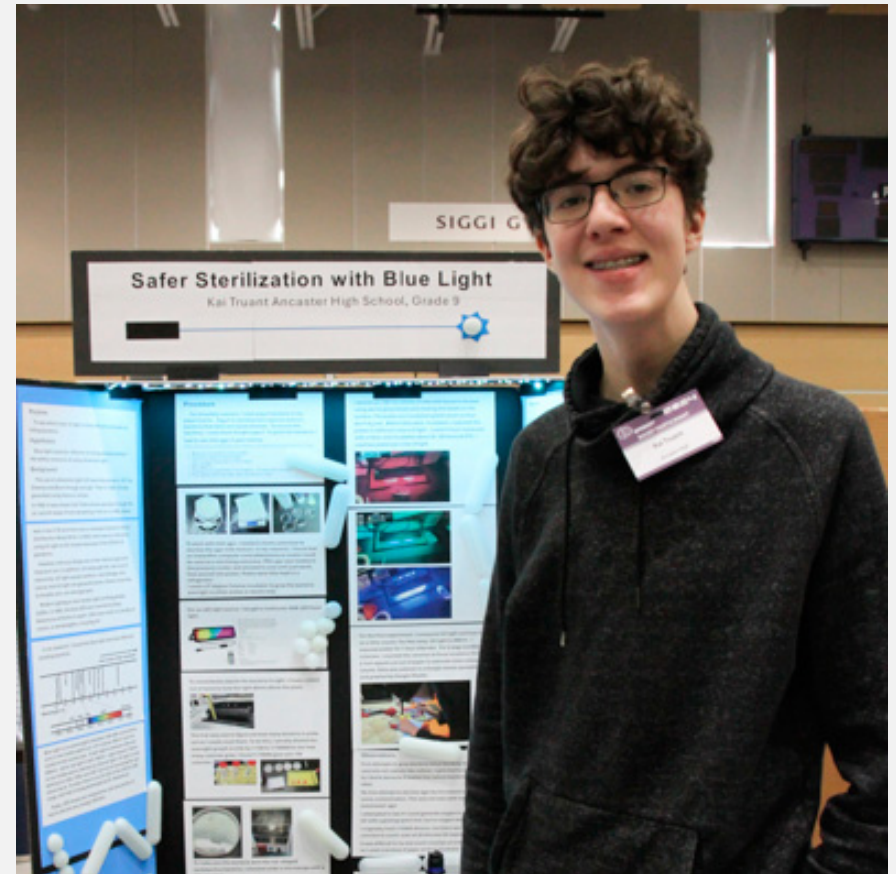
Bronze

Kai Truant

E19

True Blue: A Safer Way to kill Bacteria and Viruses with Light

Ancaster High
Ancaster



ArcelorMittal



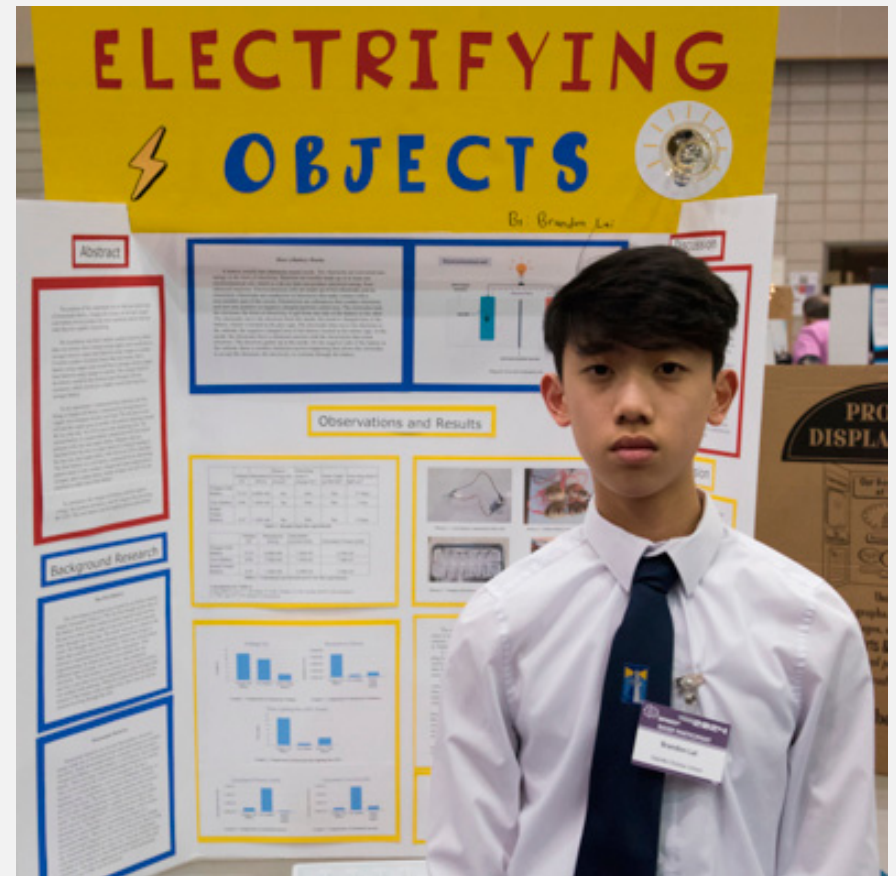


Bronze

Brandon Lai

F03
Electrifying Objects

Oakville Christian School
Oakville



ArcelorMittal





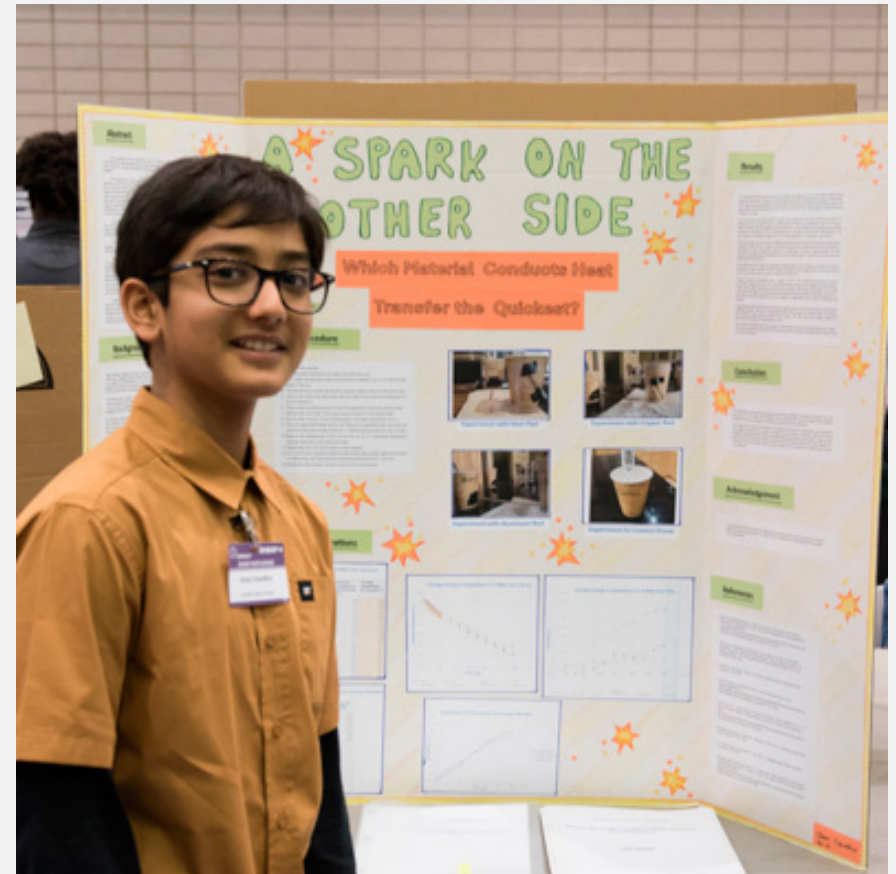
Bronze

Umar Chaudhry

F05

A SPARK ON THE OTHER SIDE: Which material conducts heat transfer the quickest?

Al-Falah Islamic School
Oakville



ArcelorMittal



Bronze

Elliot Humphreys

F06
GET A GRIP

Oakville Christian School
Oakville



ArcelorMittal





Bronze

Kiera Mitchell

F09

Modelling Spread and Infection Risk for COVID-19 in
Hallway Scenarios

Delhi District Secondary School
Delhi



ArcelorMittal





Bronze

Nabira Rashid & Maithili Rastogi

F13

Investigating the Effect of Light Color on Solar Cell
Voltage Output

White Oaks Secondary School
Oakville



ArcelorMittal





Bronze

Tessa Warren & Aaliyah Fernandes

F17
Sweet as Sugar

Oakville Christian School
Oakville



ArcelorMittal



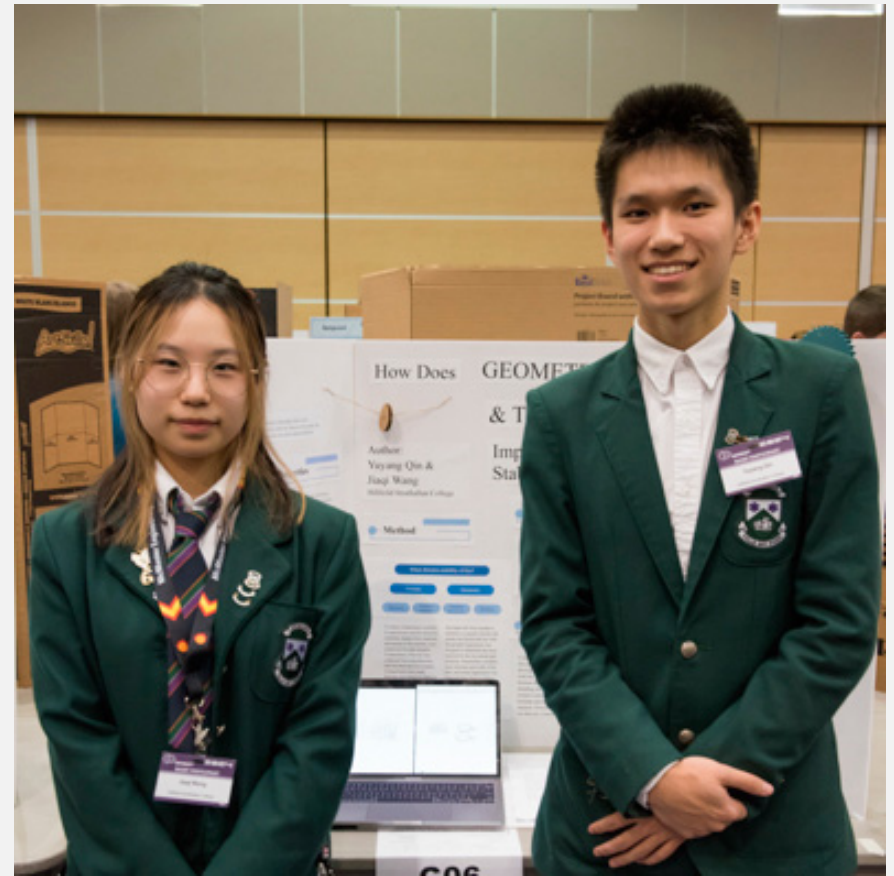
Bronze

Yuyang Qin & Jiaqi Wang

G06

How does the geometry and texture impact the stability of tires under extreme weather conditions

Hillfield Strathallan College
Hamilton



ArcelorMittal





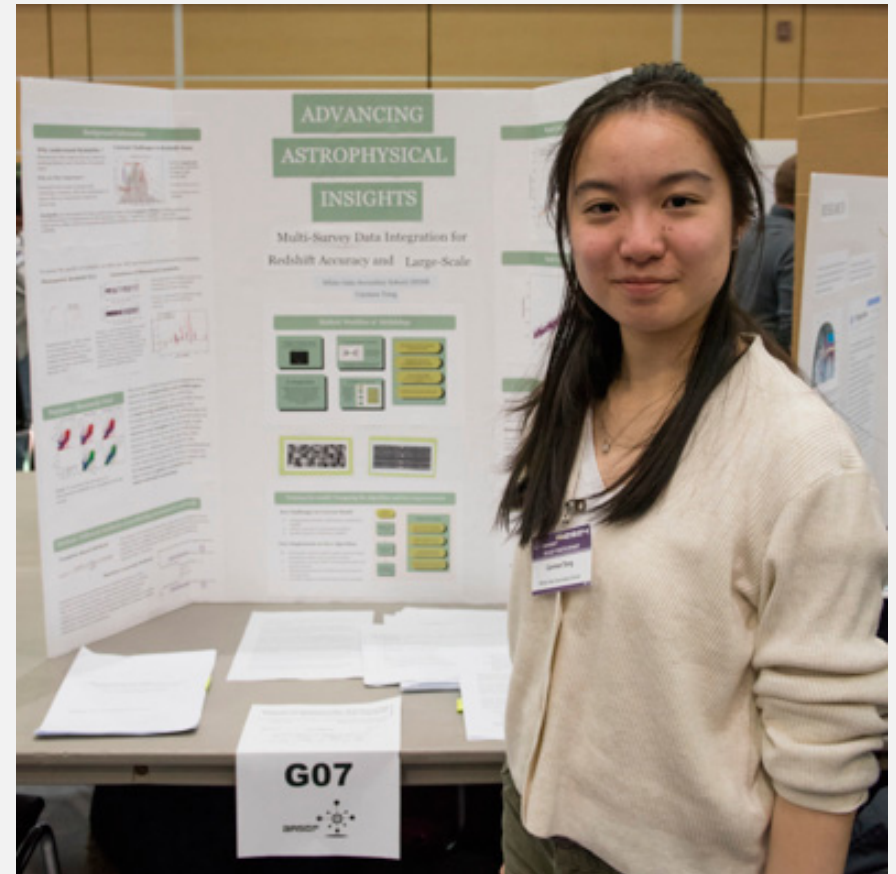
Bronze

Carmen Teng

G07

Advancing Astrophysical Insight: Multi-Survey Data Integration for Redshift Accuracy and Large-Scale

White Oaks Secondary School
Oakville



ArcelorMittal





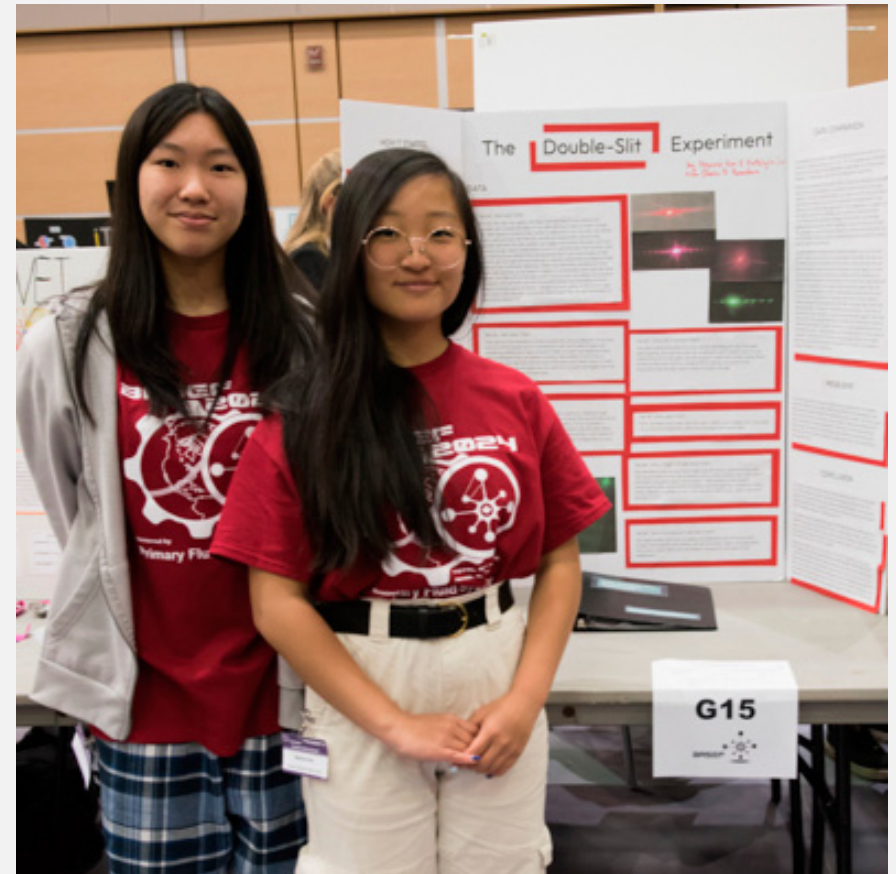
Bronze

Nayune Kim & Katelynn Liu

G15

The Double-Slit Experiment

Charles R. Beaudoin Public School
Burlington



ArcelorMittal



Bronze

Ben Szecsodi & Grayson Beecroft

H01

Affordable Emergency Housing

Rolling Meadows Public School
Burlington



ArcelorMittal





Bronze

Aarunya Gomber

H03
Seeker Bot

W. H. Morden Public School
Oakville



ArcelorMittal





Bronze

Sophia Rosien & Bridgette Sels

H07
AquaTag

Rolling Meadows Public School
Burlington



ArcelorMittal





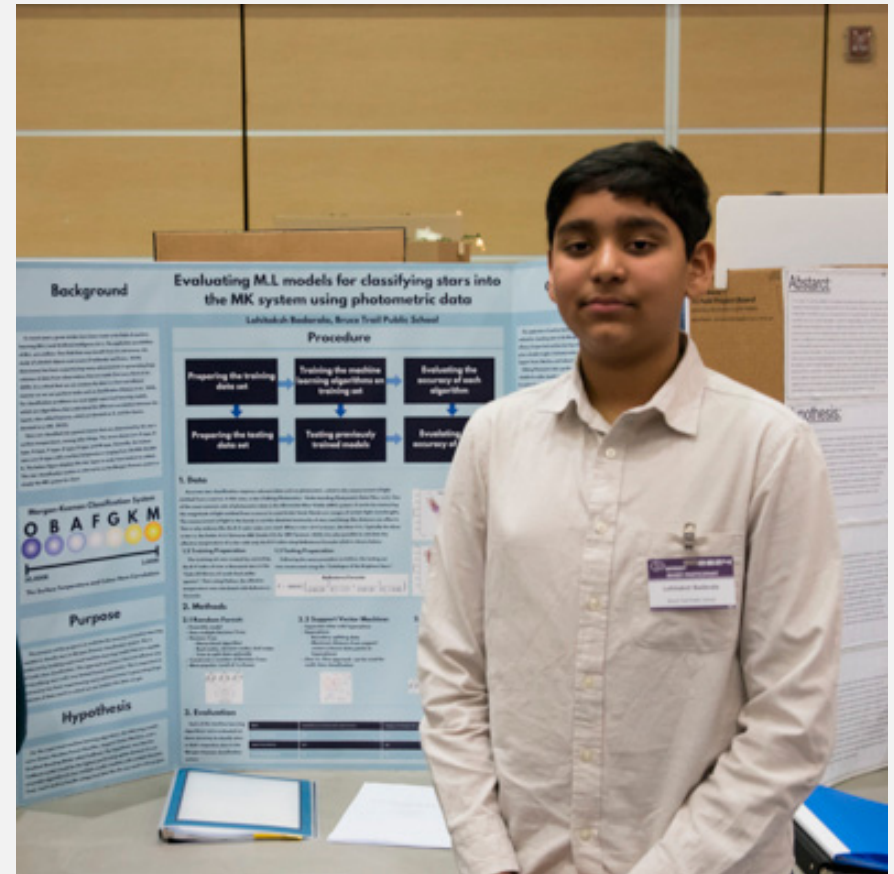
Bronze

Lohitaksh Badarala

J06

Evaluating machine learning models for classifying stars into the MK system using photometric data.

Bruce Trail Public School
Milton



ArcelorMittal





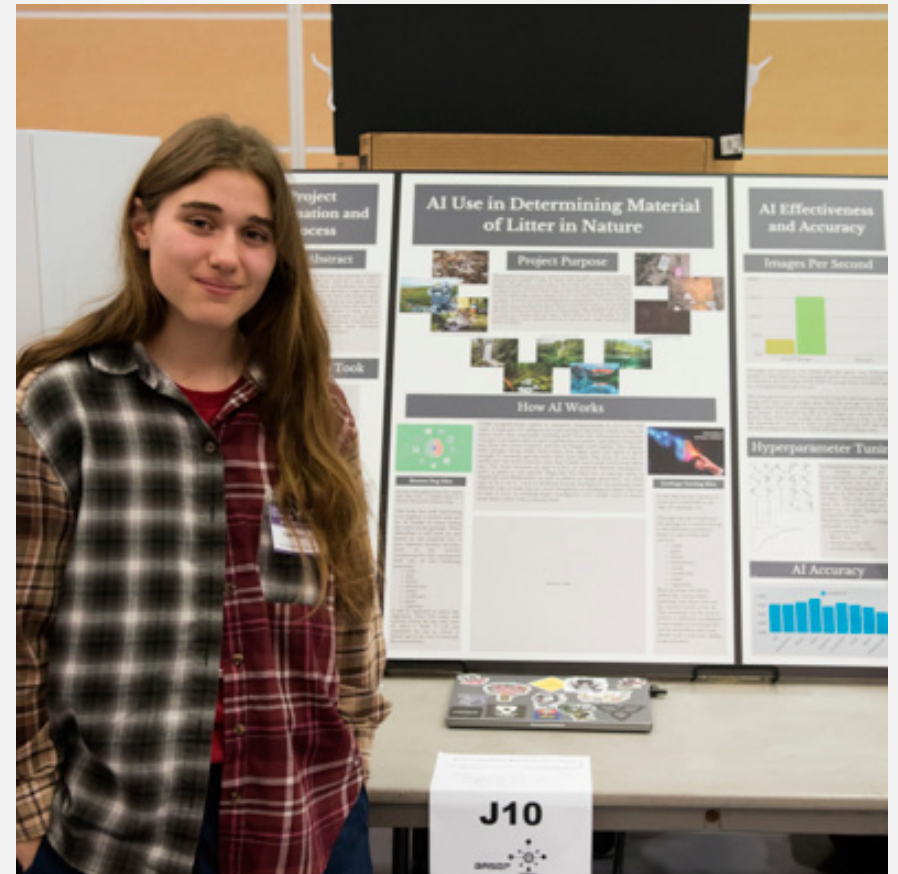
Bronze

Evelyn Peart

J10

AI Use In Determining Material Of Litter In Nature

Tiger Jeet Singh Public School
Milton



ArcelorMittal





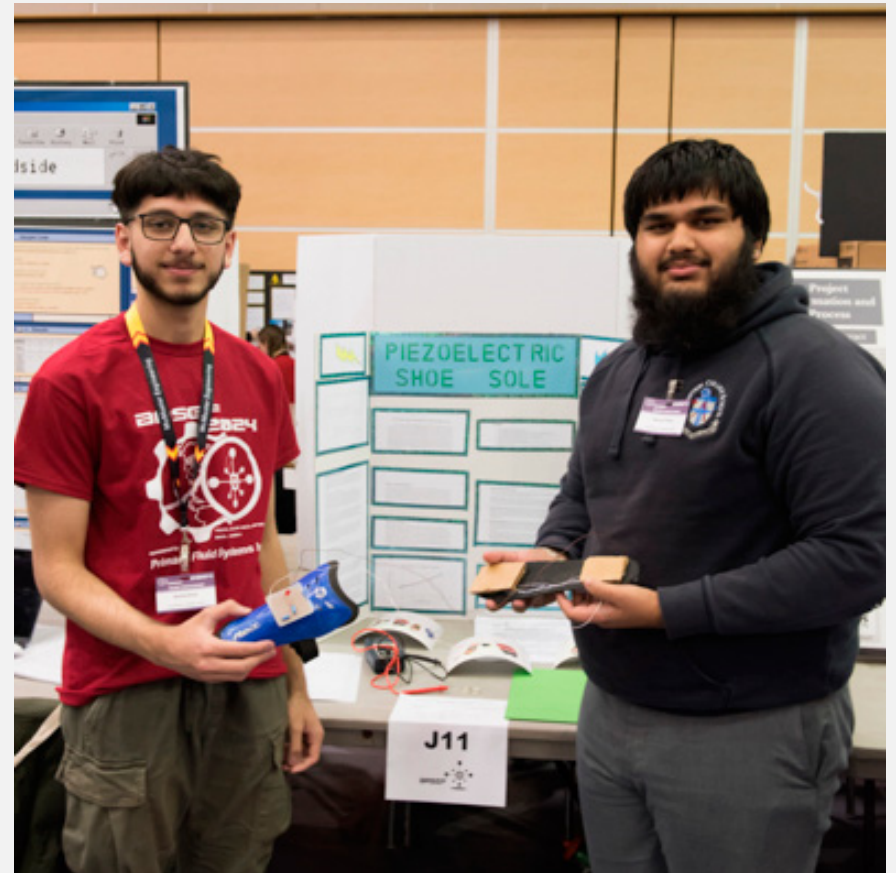
Bronze

Navraj Patial & Mohid Khan

J11

Harnessing the power of Peizoelectricity for Sustainable Energy

Assumption College School
Brantford



ArcelorMittal





Bronze

Heather Dong

J19

Convolutional Neural Networks: Radiologists of the Future

W. H. Morden Public School
Oakville



ArcelorMittal





Bronze

Gavin McKerracher

K01

EPIC (Escapement Piezoelectric Impact Converter)

Rolling Meadows Public School
Burlington



ArcelorMittal





Bronze

Ananya Anand

K02

Can I create a device to help in vision assist for dogs?

Hawthorne Village Public School
Milton



ArcelorMittal





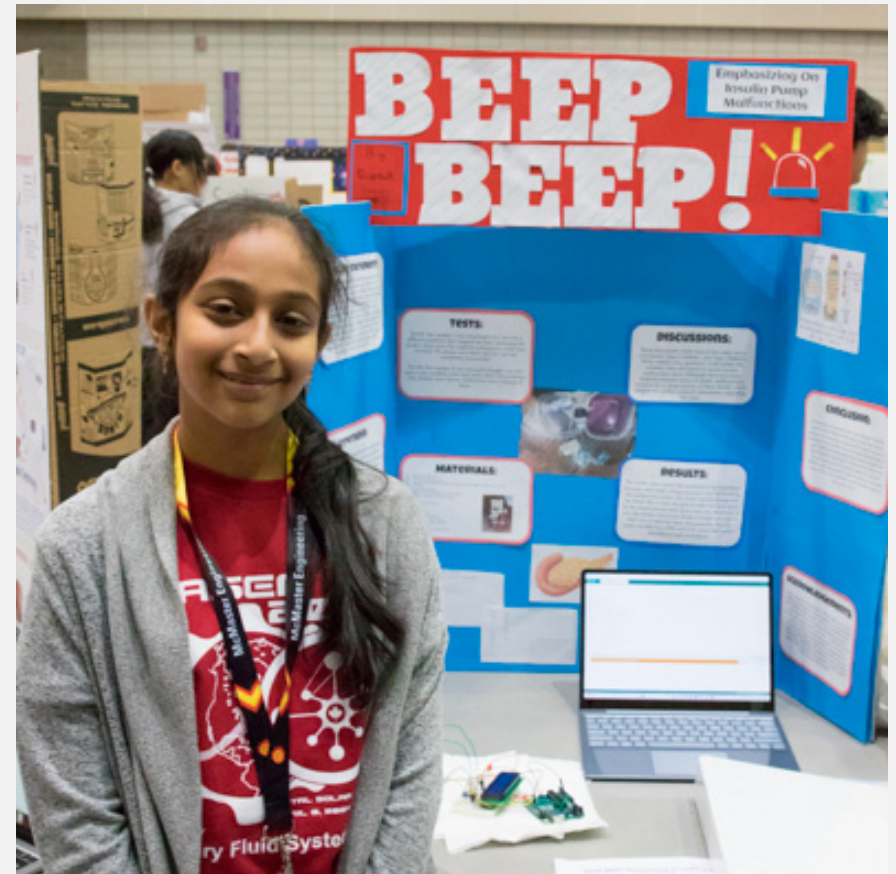
Bronze

DIYA ALAGUKUMARAN

K03

BEEP BEEP! Emphasizing on insulin pump malfunctions.

Munn's Public School
Oakville



ArcelorMittal





Bronze

Anabella Kinsella & Joshua Mithun

K07
EZ Dispenser

St. Bernadette
Dundas



ArcelorMittal





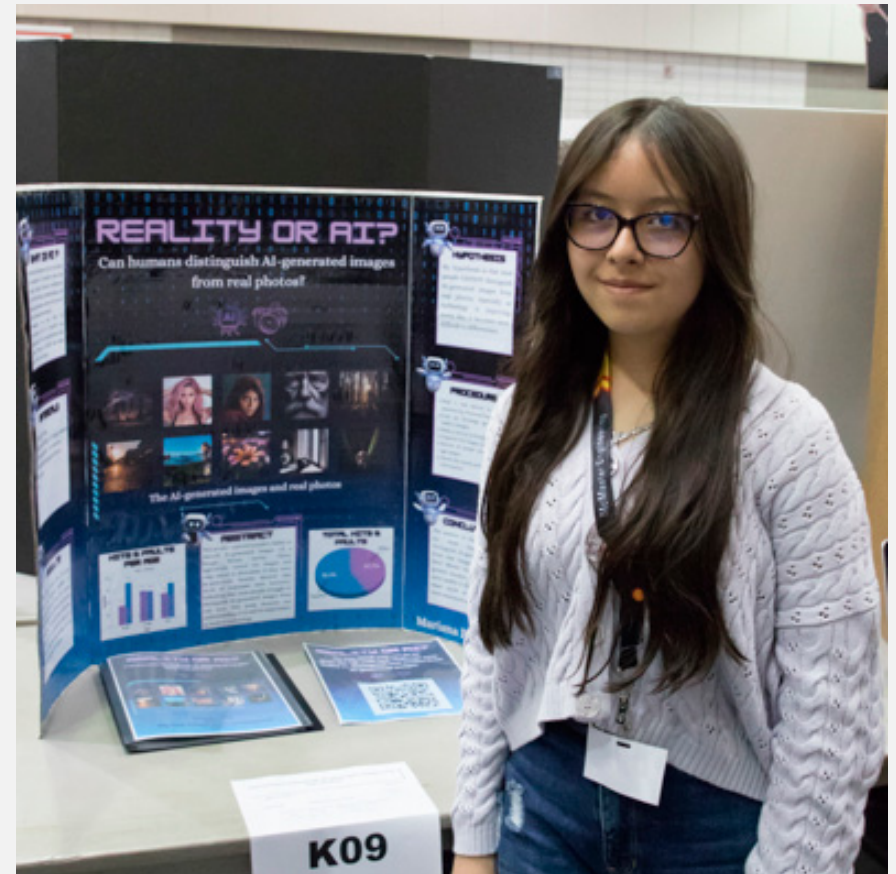
Bronze

Mariana Prias

K09

Can humans distinguish AI-generated images from real photos?

Highview
Hamilton



ArcelorMittal





Bronze

Owen Small & Emma Forrest

K17

SSS - The Street Smart Safety App

Balaclava
Carlisle



ArcelorMittal





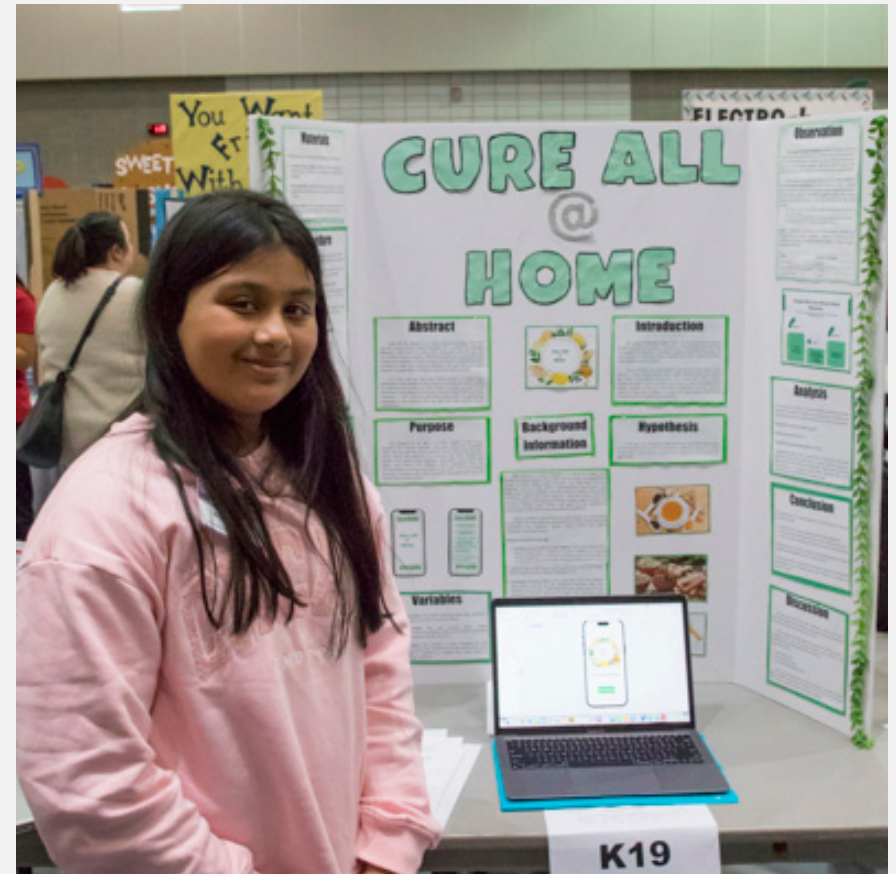
Bronze

Mrittika Arun

K19

Home Remedy App for Common Illnesses - Cure All @ Home

John William Boich Public School
Burlington



ArcelorMittal





Bronze

Zoya Waseem

K20

Pneumonia Detective: The Effectiveness of a
Pneumonia Detection ML VS. Medical Practitioners

Al-Falah Islamic School
Oakville



ArcelorMittal





Bronze

Jameson Gilchrist & Darius Jones

L02

MOTIV8-2-HYDR8: H₂O FITNESS MOTIV8R

St. Elizabeth Seton Elementary School
Burlington



ArcelorMittal





Bronze

Hailey Betty

L04
Bio Breakdown

Cathy Wever
Hamilton



ArcelorMittal



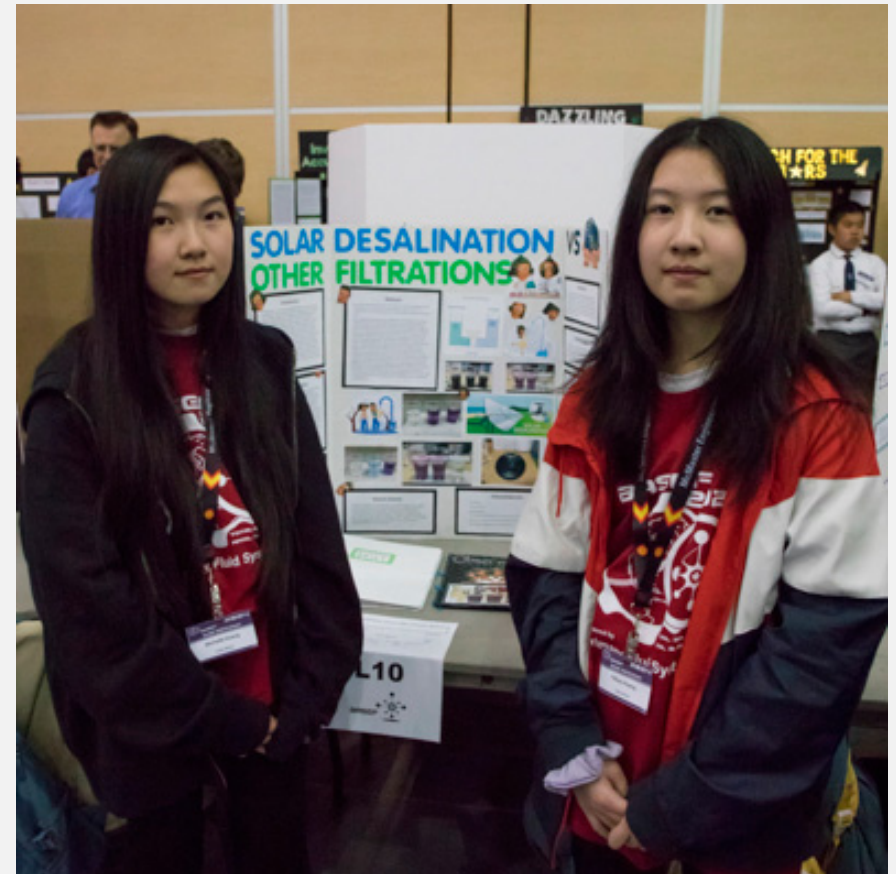
Bronze

Michelle Huang & Tiffany Huang

L10

Solar Desalination Versus Other Filtration Methods

Cathy Wever
Hamilton



ArcelorMittal



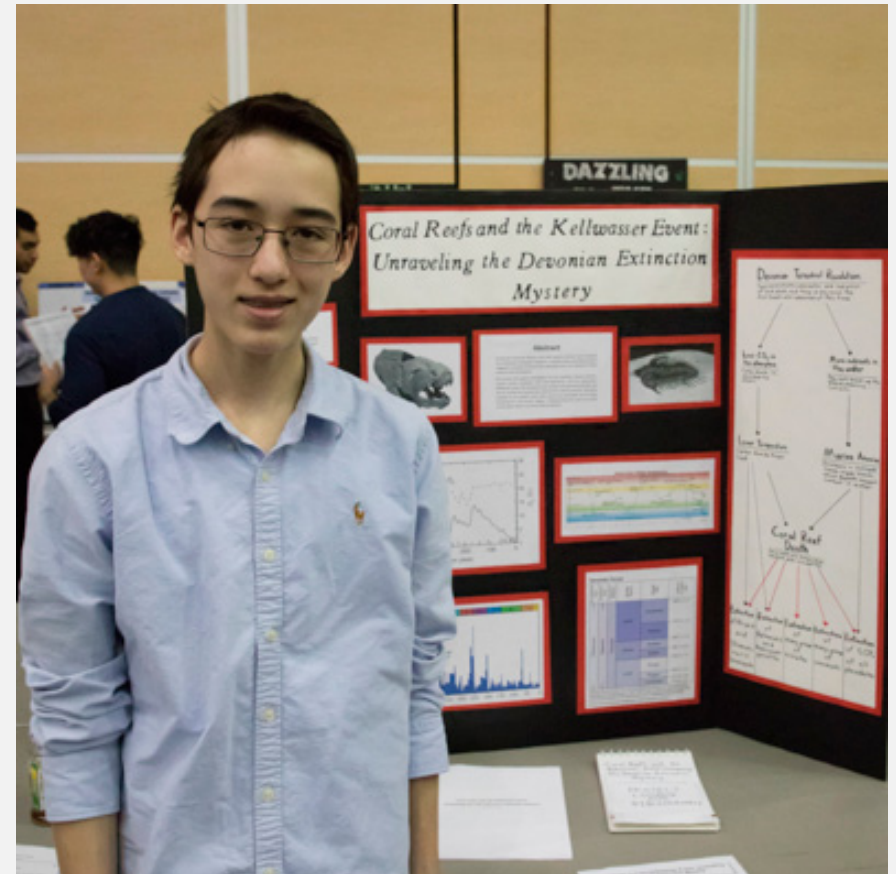
Bronze

Tristan Barkman

L11

Coral Reefs and the Kellwasser Event: Unraveling the Devonian Extinction Mystery

Home Schooling
Brantford



ArcelorMittal





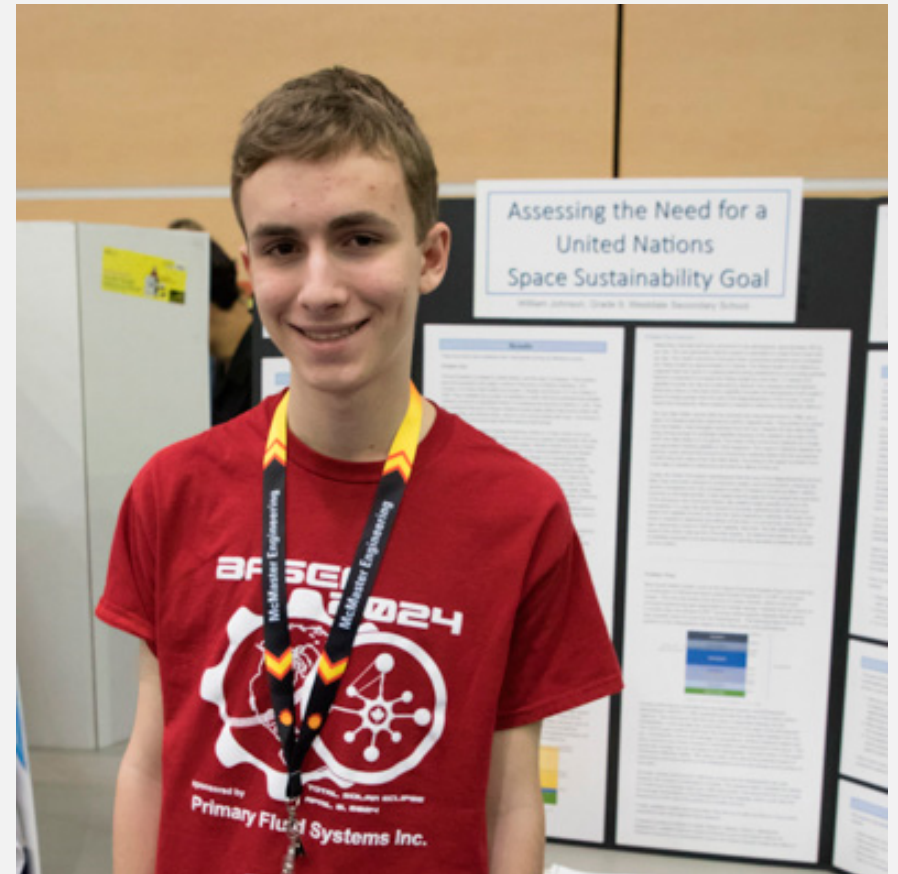
Bronze

William Johnson

L14

Assessing the Need for a United Nations' Space Sustainability Goal

Westdale Secondary School
Hamilton



ArcelorMittal



Bronze

Anaum Farhan & Alishba Fayyaz

L15
Alumify

Rattlesnake Point Public School
Milton



ArcelorMittal



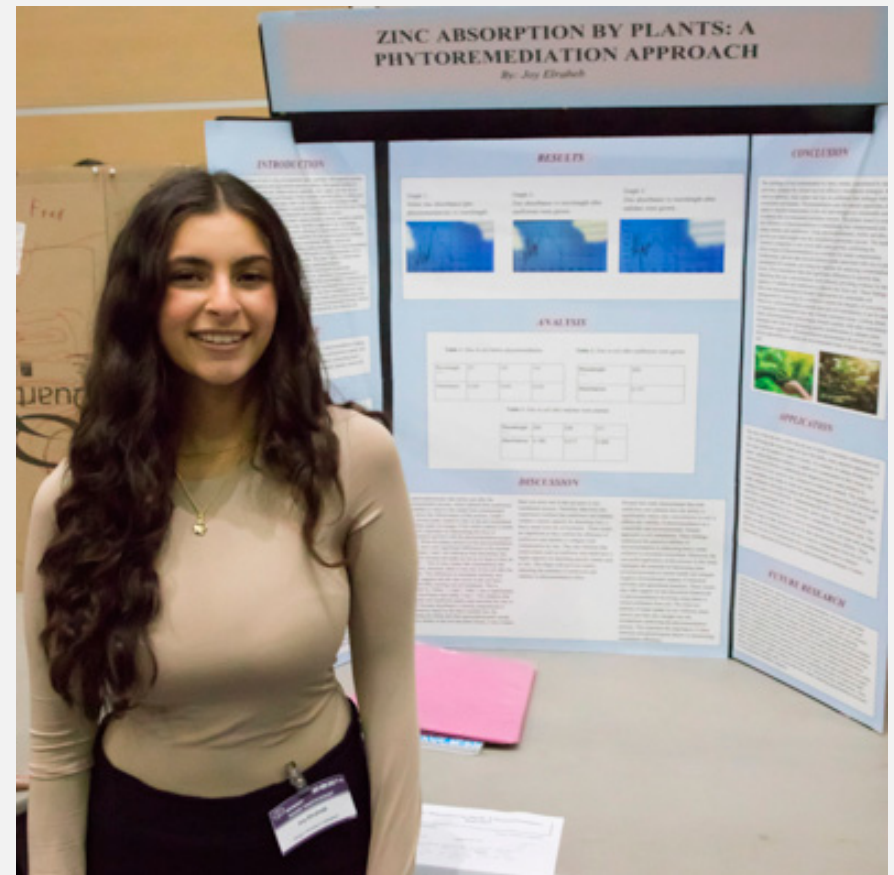
Bronze

Joy Elraheb

L18

Zinc Absorption by Plants: A Phytoremediation Approach

King's Christian Collegiate
Oakville



ArcelorMittal





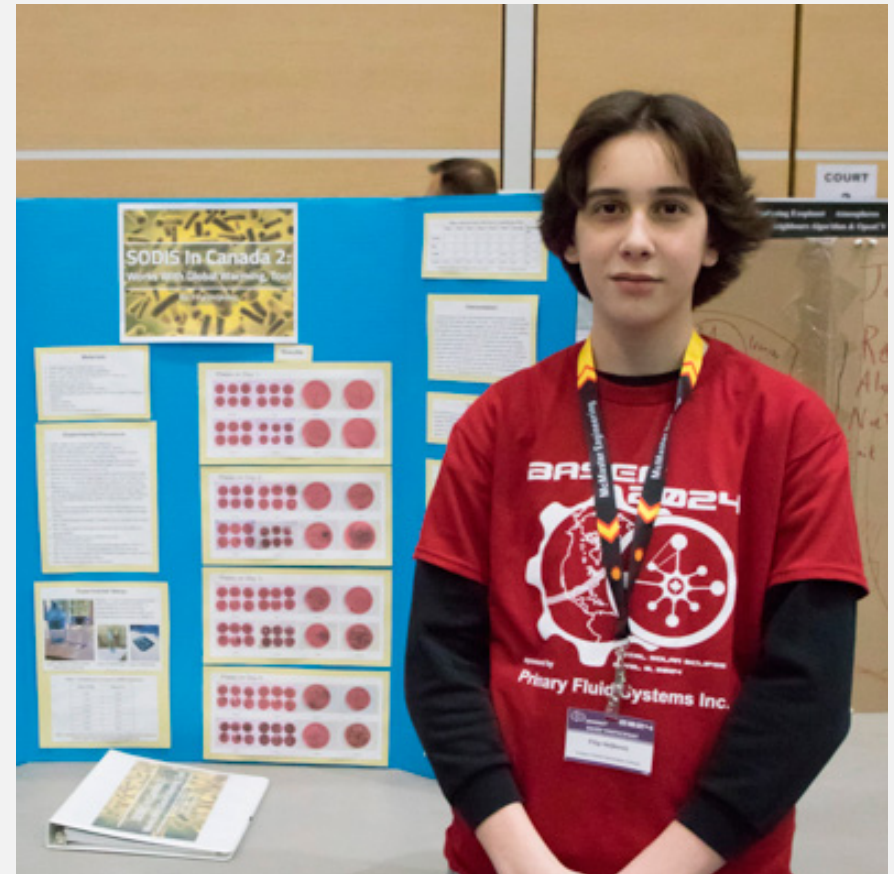
Bronze

Filip Veljkovic

L20

SODIS in Canada 2 - Works With Global Warming,
too!

Corpus Christi Secondary School
Burlington



ArcelorMittal



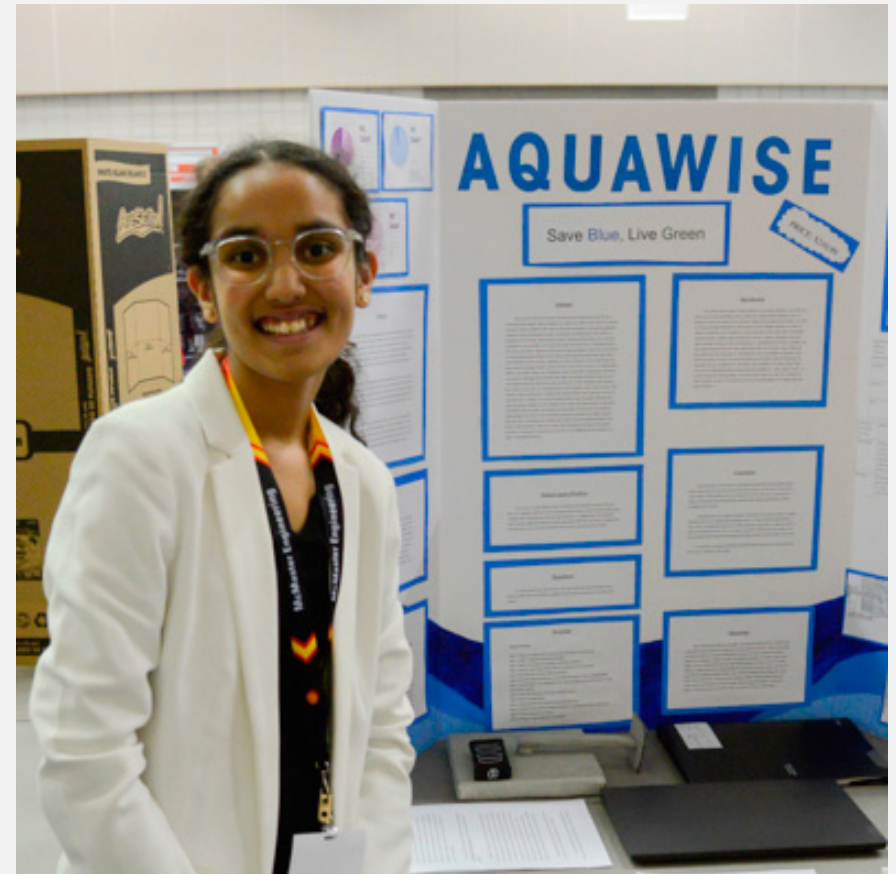


Bronze

Tiara Jain

M10
AquaWise

John William Boich Public School
Burlington



ArcelorMittal



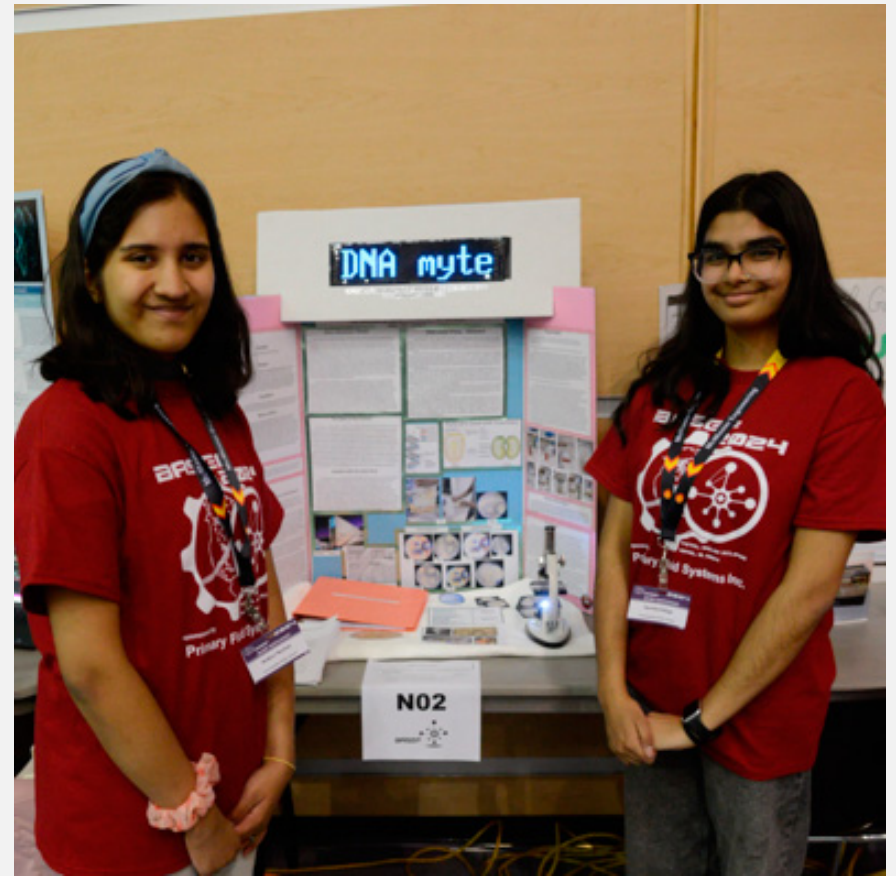


Bronze

Anika C Rechan & Varnika Kaliga

N02
DNA-myte Party

Sunningdale Public School
Oakville



ArcelorMittal





Bronze

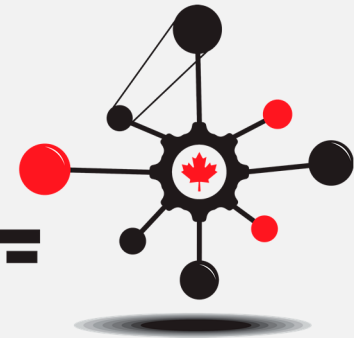
Ariana Mehr & Julian Shaiju

N07

Great Minds Think Alike!

Bishop P. F. Reding Secondary School
Milton

BASEEF



ArcelorMittal



Bronze

Karthik Ponnambalam

N09

Investigating the use of a gelatin gel to prevent the breakage of fragile items

Hillfield Strathallan College
Hamilton



ArcelorMittal



Bronze

Joshua Halim

N11
Reach for the Stars

Oakville Christian School
Oakville



ArcelorMittal





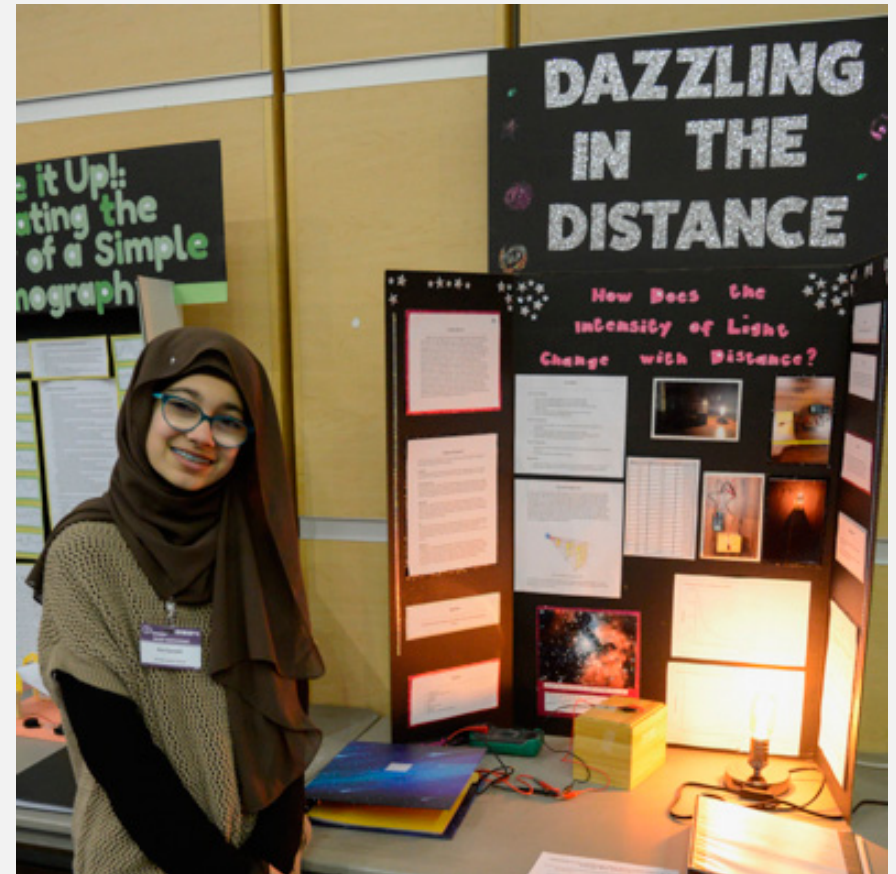
Bronze

Ana Qureshi

N12

Dazzling in the Distance: How Does Light Intensity Change With Distance?

Al-Falah Islamic School
Oakville



ArcelorMittal





Bronze

Luke Powell

N21

Flashify: An Innovative Flash Card Alternative

Aldershot High School
Burlington



ArcelorMittal





Bronze

Jordan LeBlanc

N24

A Novel System for Objective Clinical Assessment of Cold and Influenza Using Infrared Image Analysis

St. Matthew Elementary School
Oakville





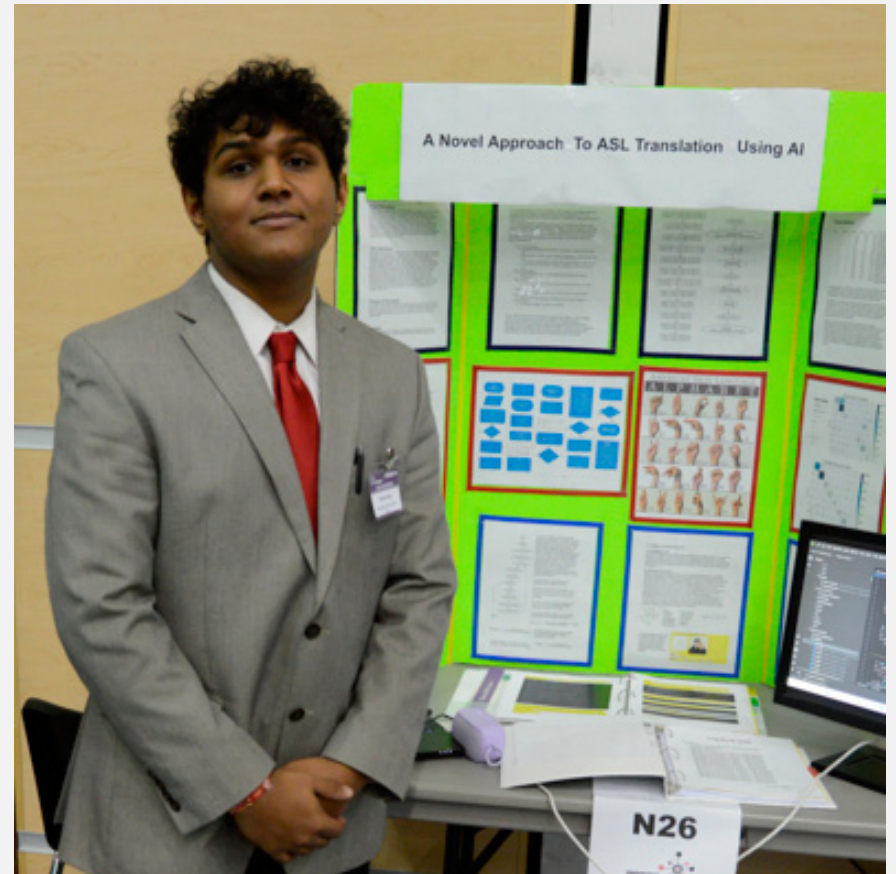
Bronze

Vedant Sheel

N26

A Novel Approach to ASL Translation Using AI

Waterdown District Secondary School
Waterdown



ArcelorMittal



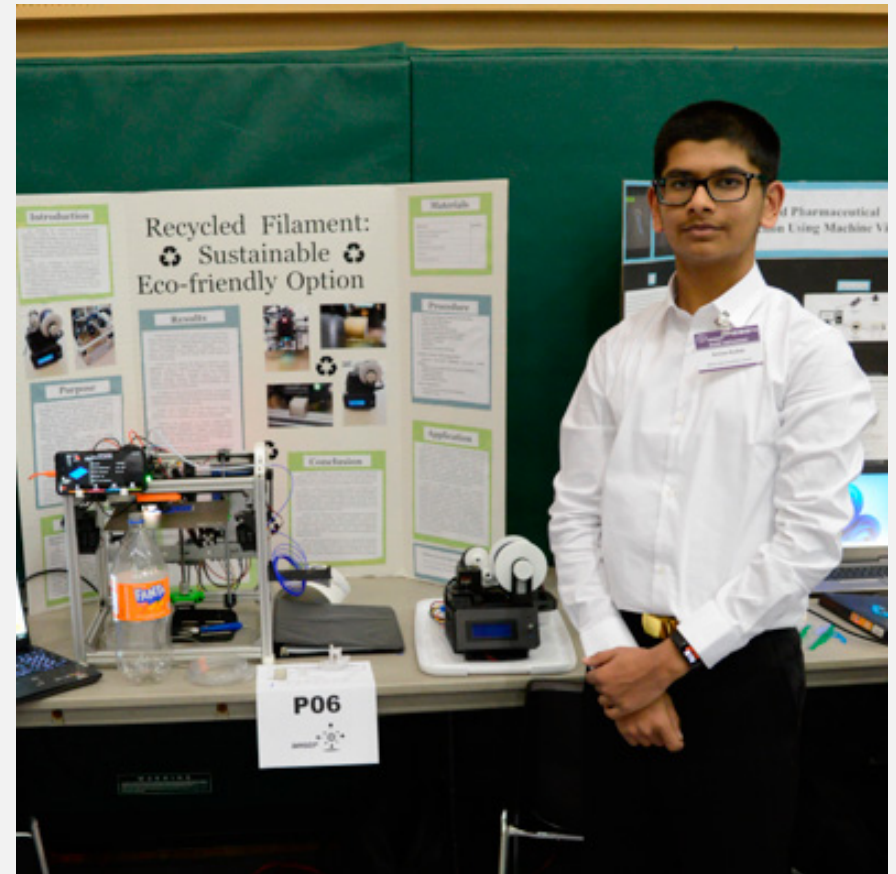
Bronze

Arnav Kudale

P06

Recreator3D.com - Is recycling filament cheaper than buying spools?

White Oaks Secondary School
Oakville



ArcelorMittal





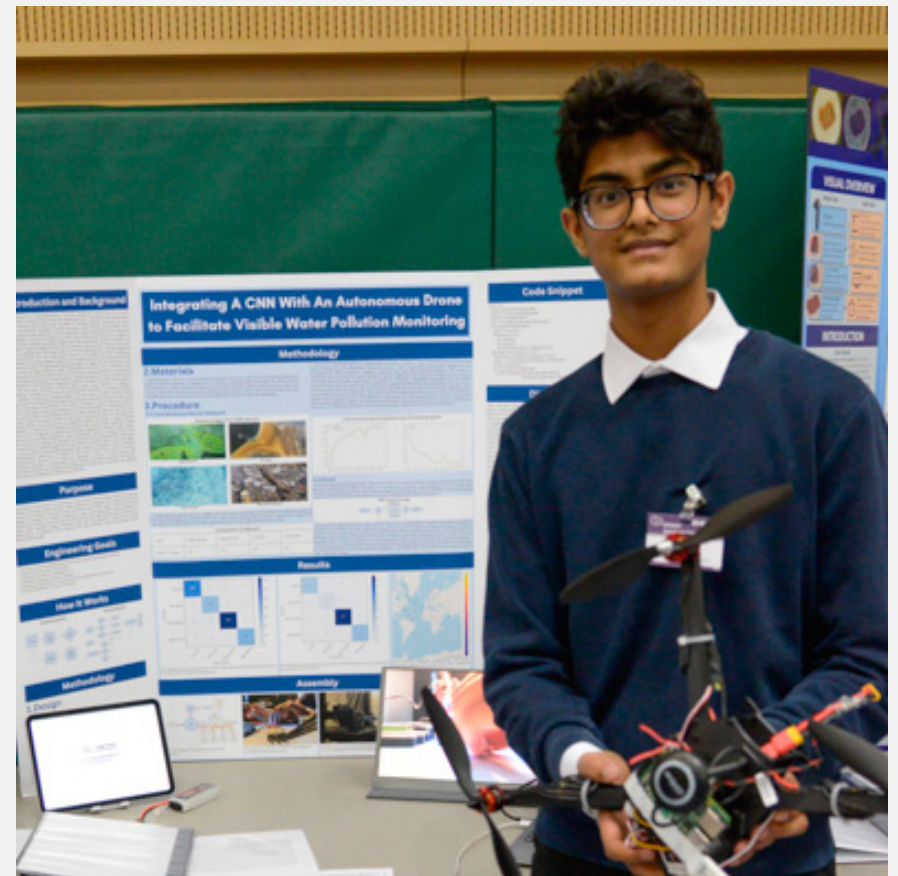
Bronze

Anish Rathod

P10

Integrating A CNN With An Autonomous Drone To Facilitate Visible Water Pollution Monitoring

Burlington Central High School
Burlington



ArcelorMittal





Bronze

Hannah Durowoju

P14

Using artificial intelligence to improve observation in child and adolescent mental units

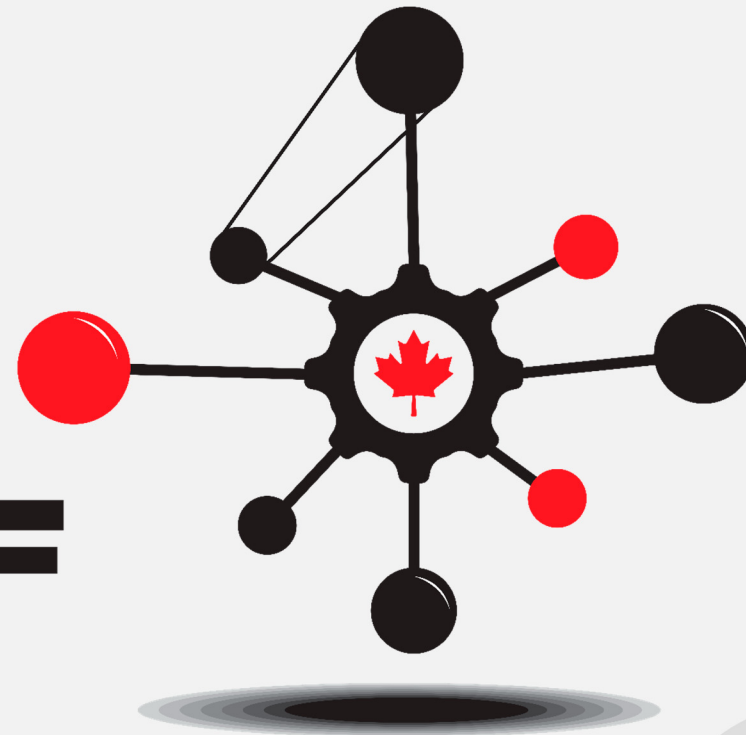
Our Lady of Victory Elementary School
Milton



ArcelorMittal



Silver Merit Awards



BASCF





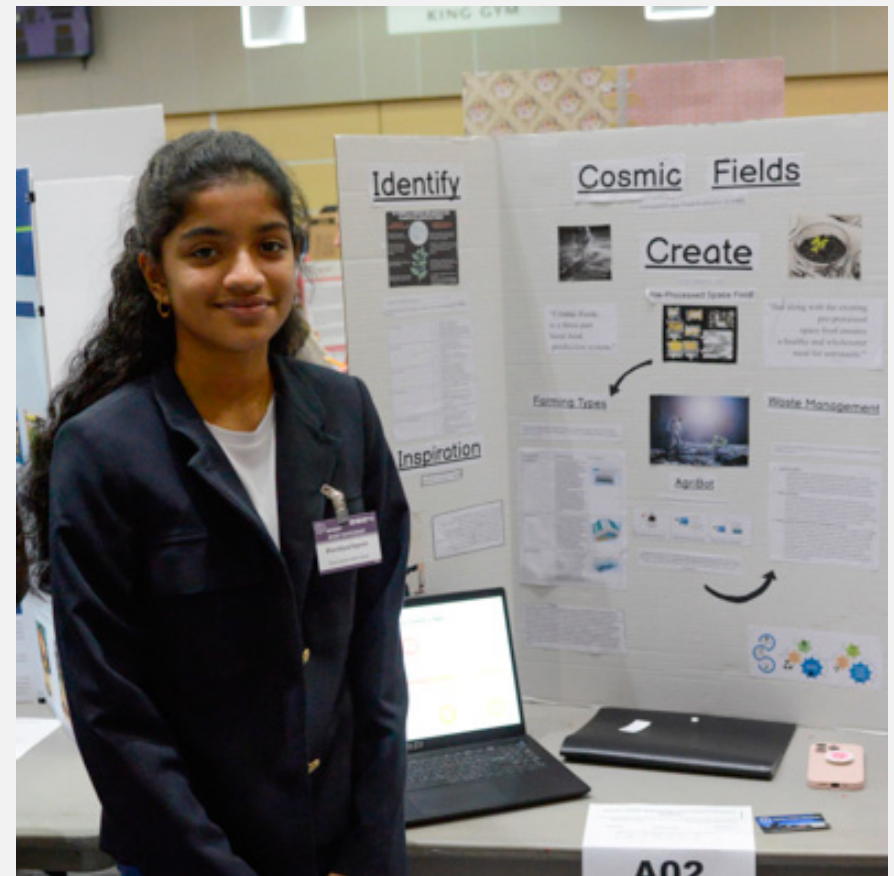
Silver

Bhavishyaa Vignesh

A02

Cosmic Fields (Advanced Lunar Food Production System)

Post's Corners Public School
Oakville



ArcelorMittal





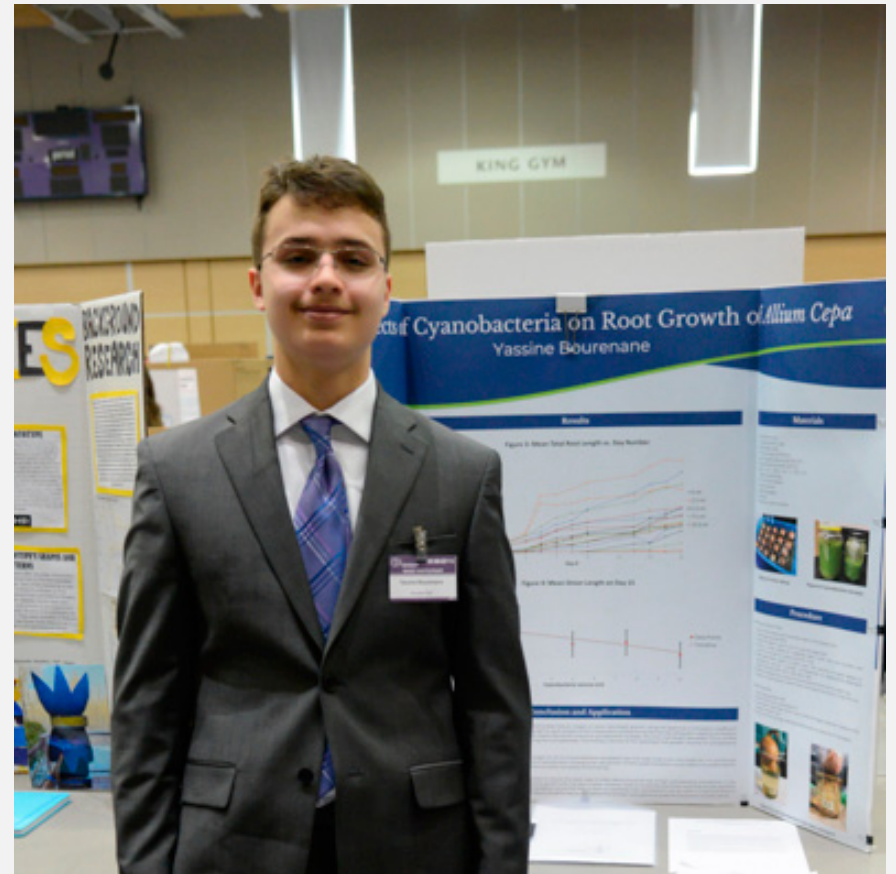
Silver

Yassine Bourenane

A03

The Effects of Cyanobacteria on Root Growth of
Allium Cepa

Ancaster High
Ancaster



ArcelorMittal





Silver

Arya De Souza & Emma Su

A05

Back to the Water - Creating 3D Printed Prosthetics
for Painted Turtles

W. H. Morden Public School
Oakville



ArcelorMittal



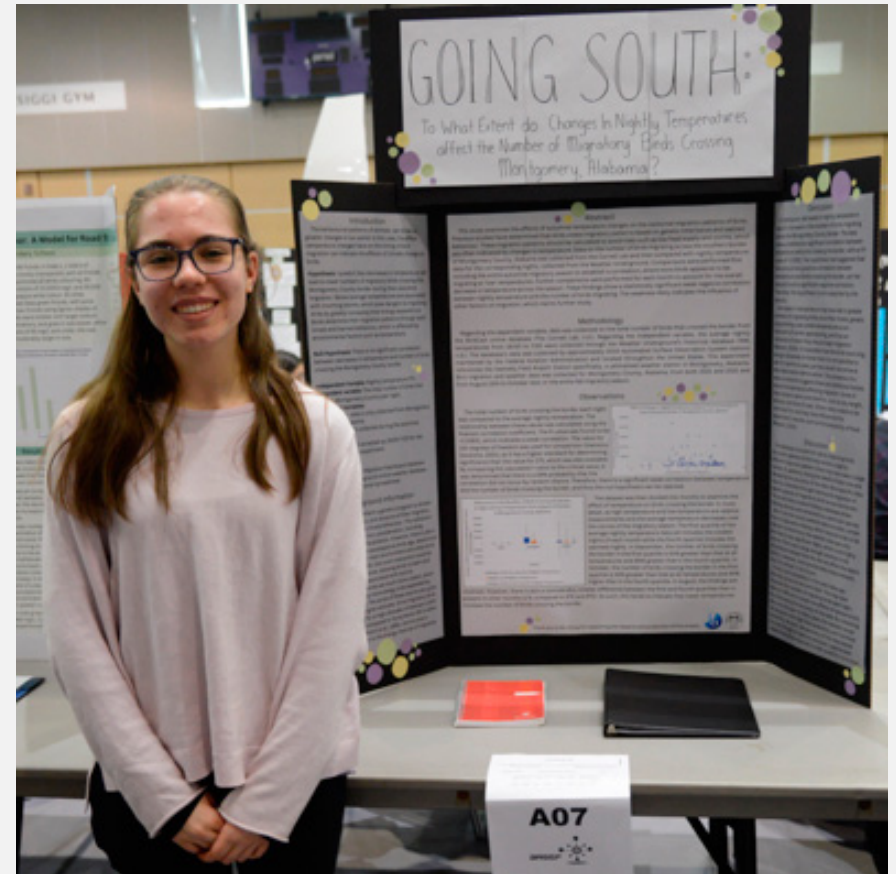


Silver

Katherine Lepischak

A07
Going South

Westdale Secondary School
Hamilton



ArcelorMittal





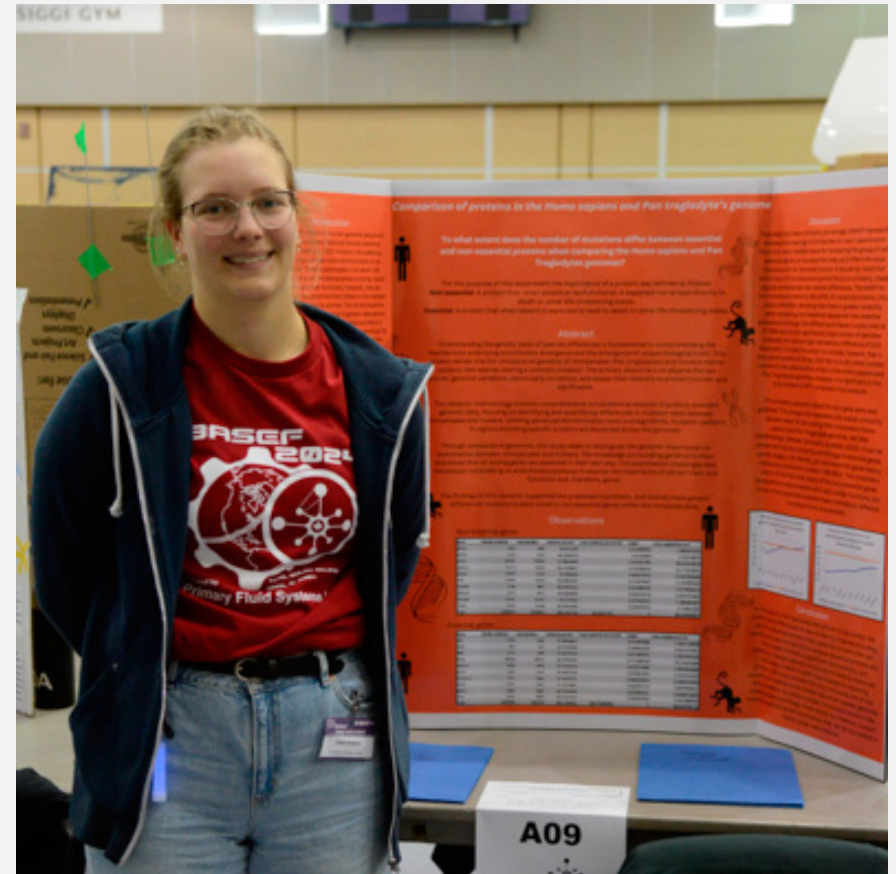
Silver

Claire Jackson

A09

Comparison of proteins in the Homo sapiens and Pan troglodyte's genome

Westdale Secondary School
Hamilton



ArcelorMittal





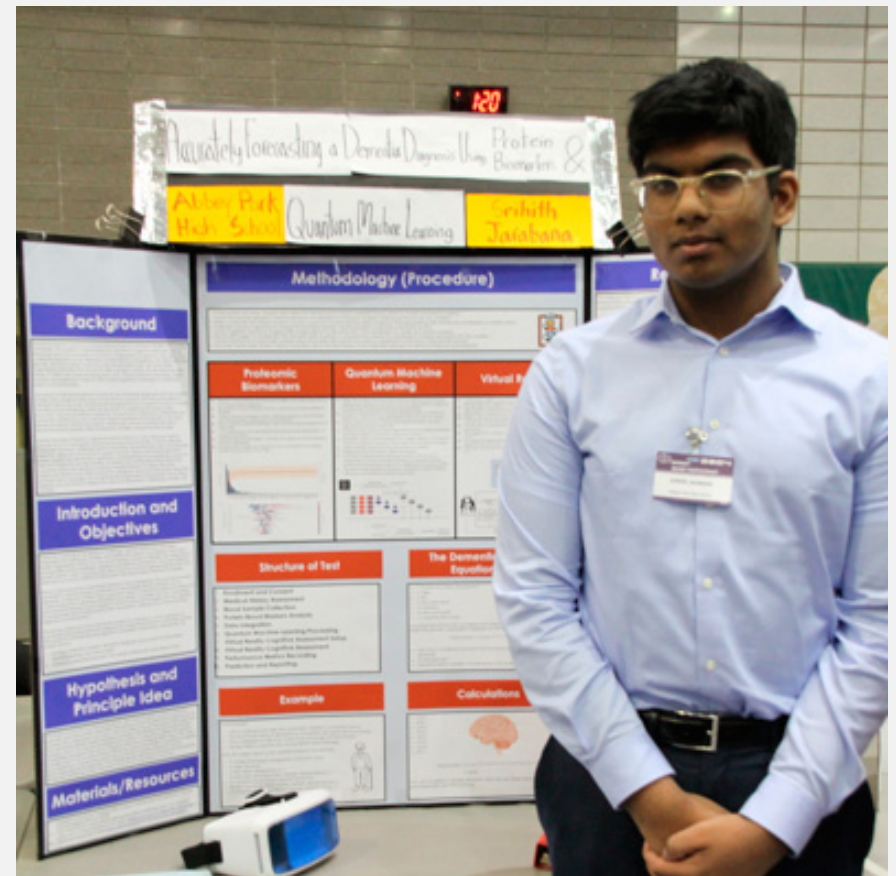
Silver

Srihith Jarabana

B13

Accurately Forecasting a Dementia Diagnosis Using Protein Biomarkers and Quantum Machine Learning

Abbey Park High School
Oakville



ArcelorMittal





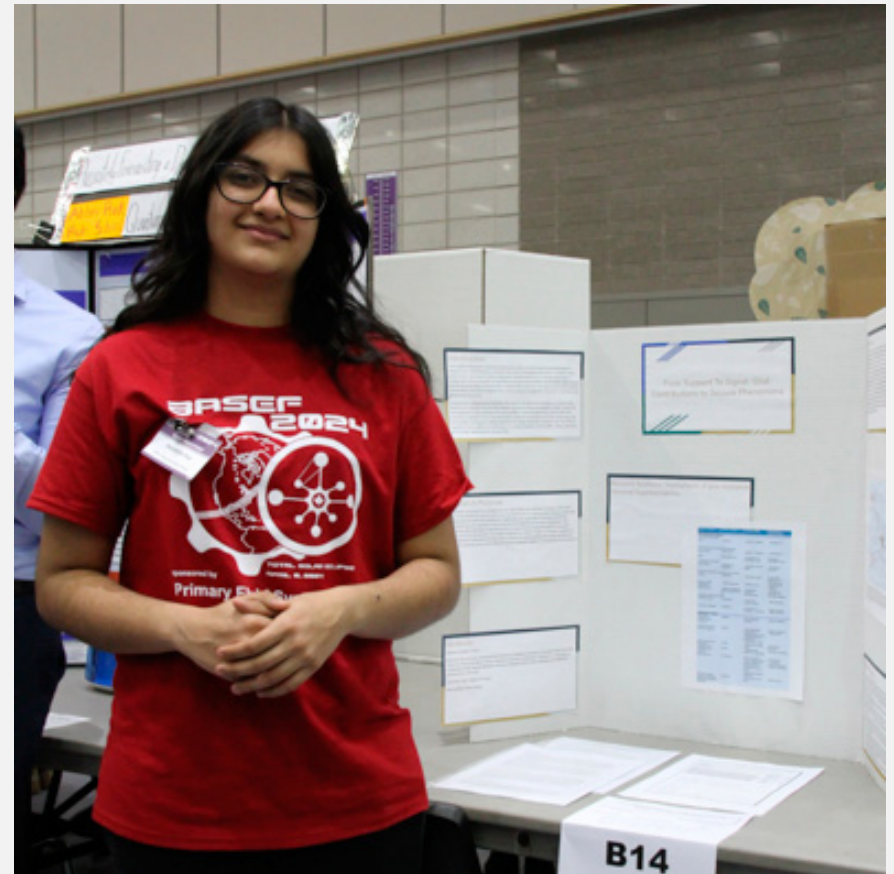
Silver

Shambhvi Dua

B14

Decoding Brainwaves: A Machine Learning Approach
to Seizure Prediction

White Oaks Secondary School
Oakville



ArcelorMittal





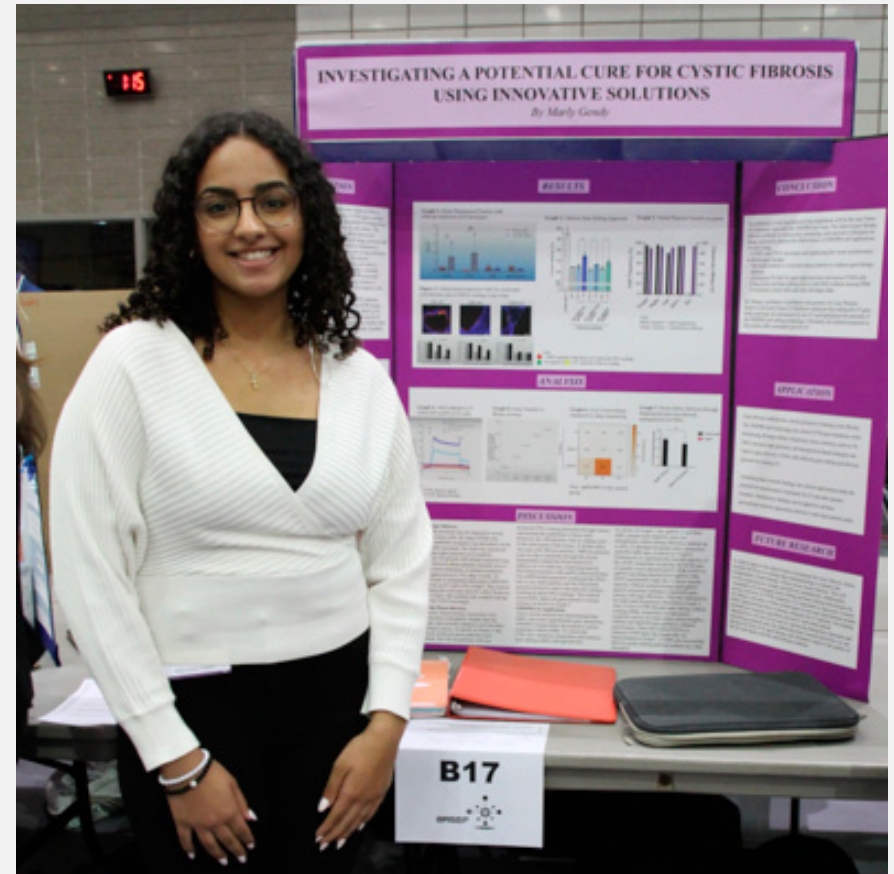
Silver

Marly Gendy

B17

Investigating Potential Cure for Cystic Fibrosis Using Innovative Solutions

King's Christian Collegiate
Oakville



ArcelorMittal





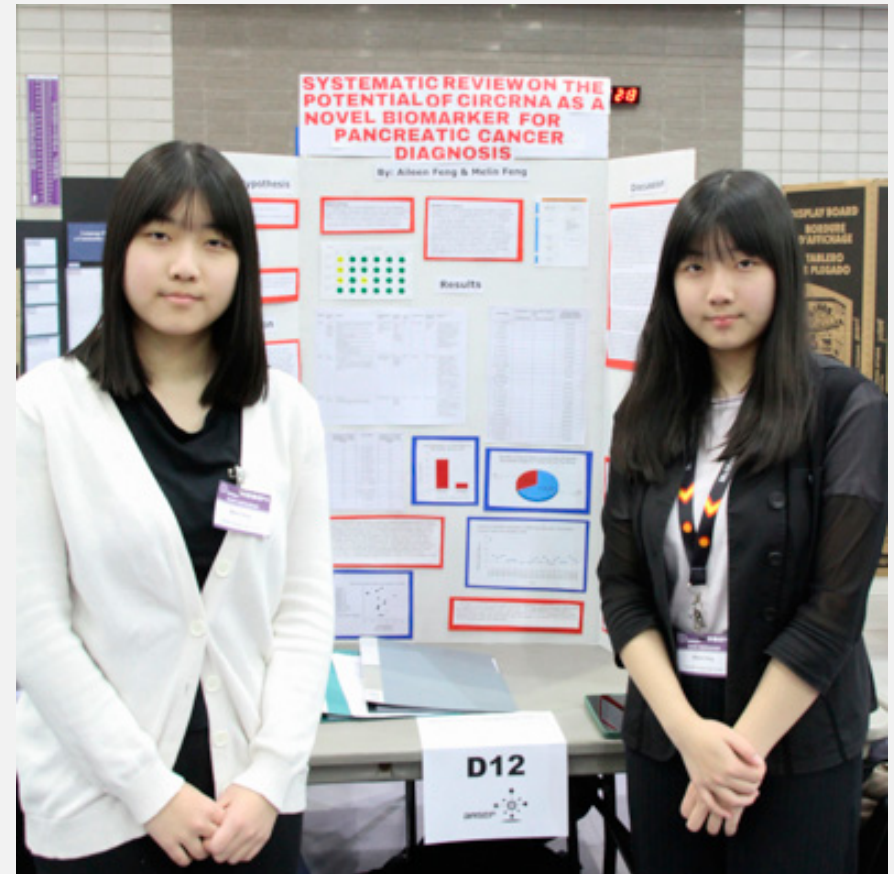
Silver

Aileen Feng & Melin Feng

D12

Systematic Review on The Potential of CircRNA as a Novel Biomarker For Pancreatic Cancer Diagnosis

Oakville Trafalgar High School
Oakville



ArcelorMittal





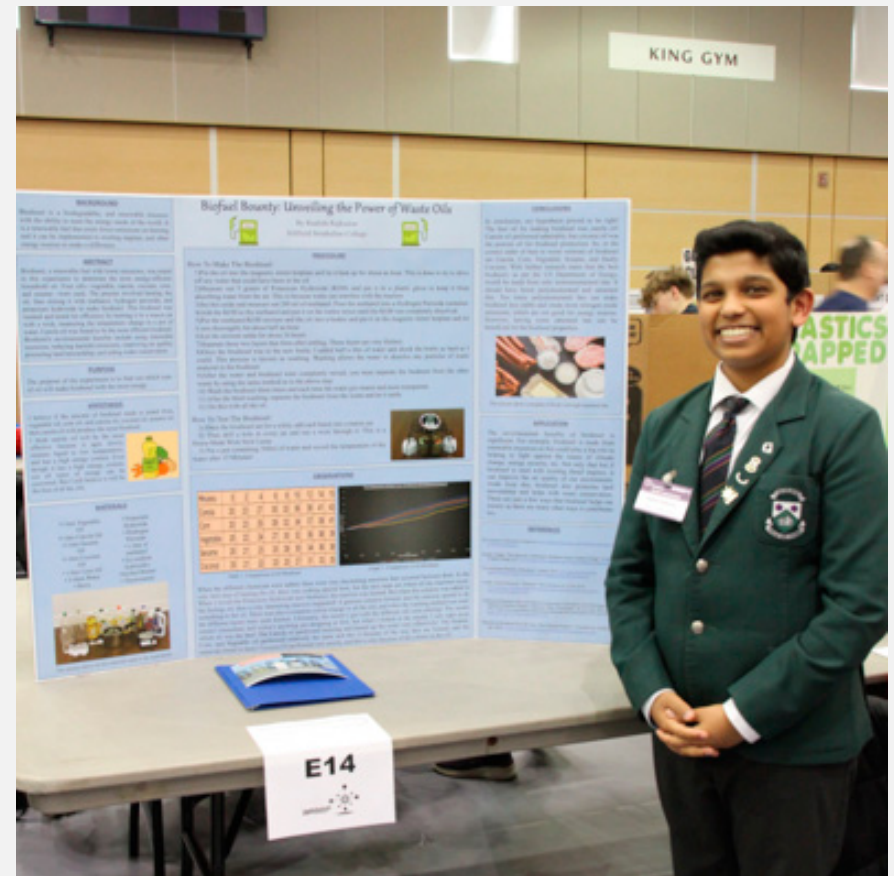
Silver

Raahith Rajkumar

E14

Biofuel Bounty: Unveiling the Power of Waste Oils

Hillfield Strathallan College
Hamilton



ArcelorMittal



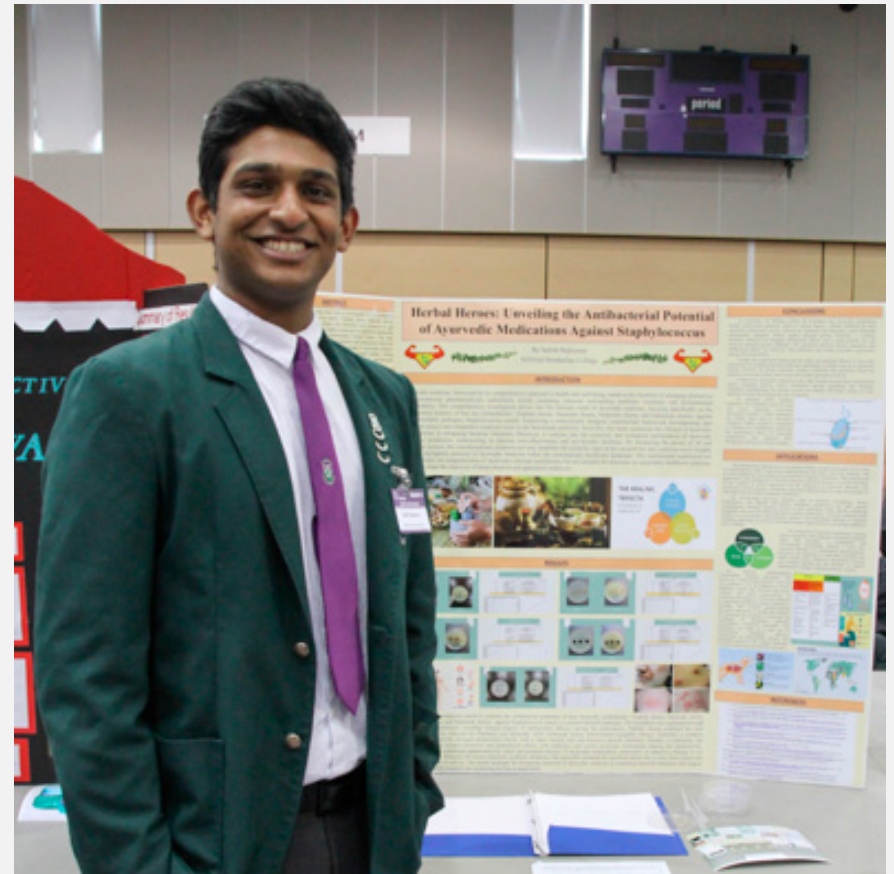
Silver

Sahith Rajkumar

E15

Herbal Heroes: Unveiling the Antibacterial Potential of Ayurvedic Medications Against Staphylococcus

Hillfield Strathallan College
Hamilton



ArcelorMittal





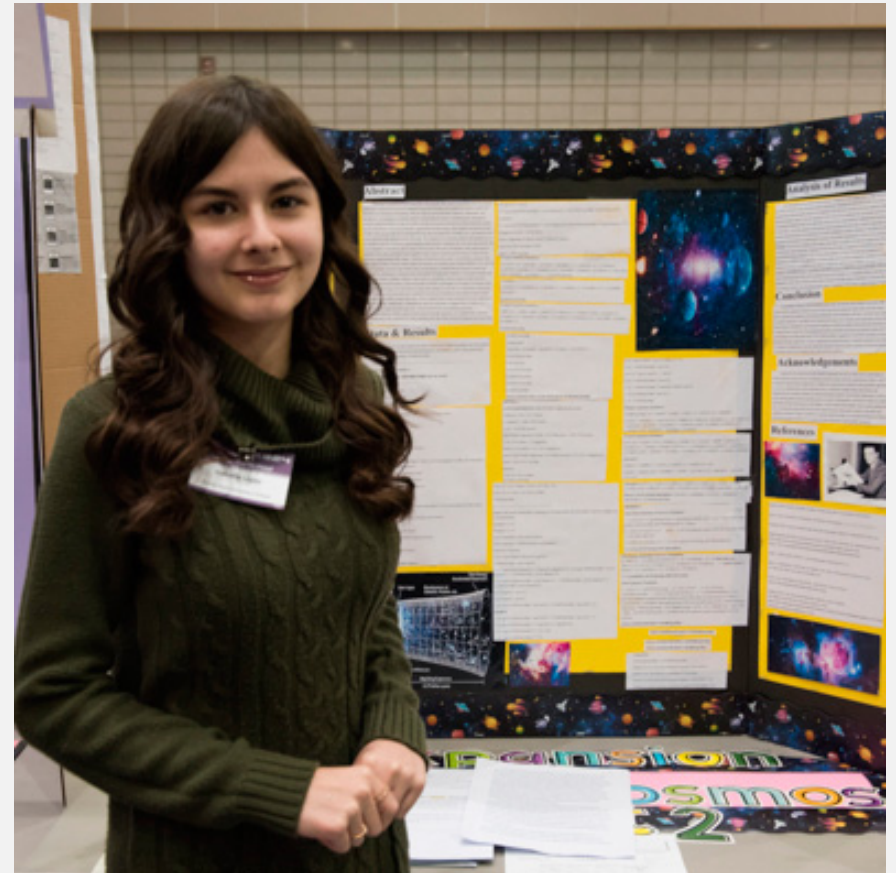
Silver

Isabella Lopes

F02

Expansion of the Cosmos part 2

Bishop Ryan Secondary School
Hanon



ArcelorMittal



Silver

Rahul Rao & Vivaan Kar

F20

The Alginate Advantage

W. H. Morden Public School
Oakville



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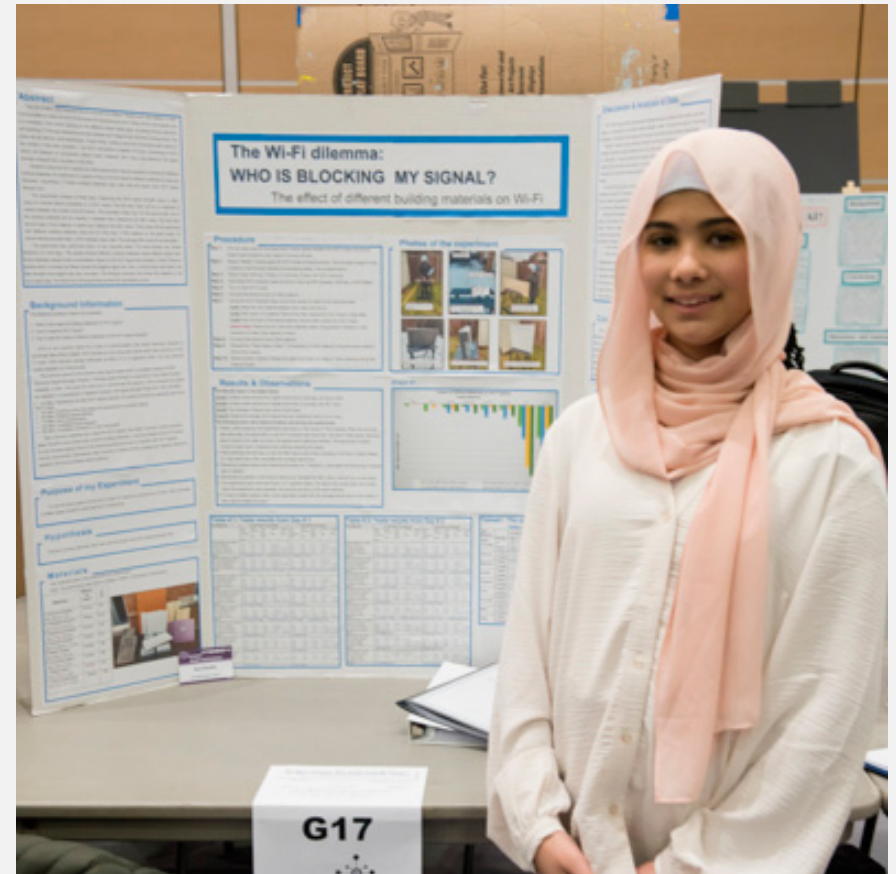
Silver

Aya Gharbia

G17

The Wi-Fi dilemma: Who Is Blocking My Signal? The effect of different building materials on Wi-Fi

Al-Falah Islamic School
Oakville



ArcelorMittal



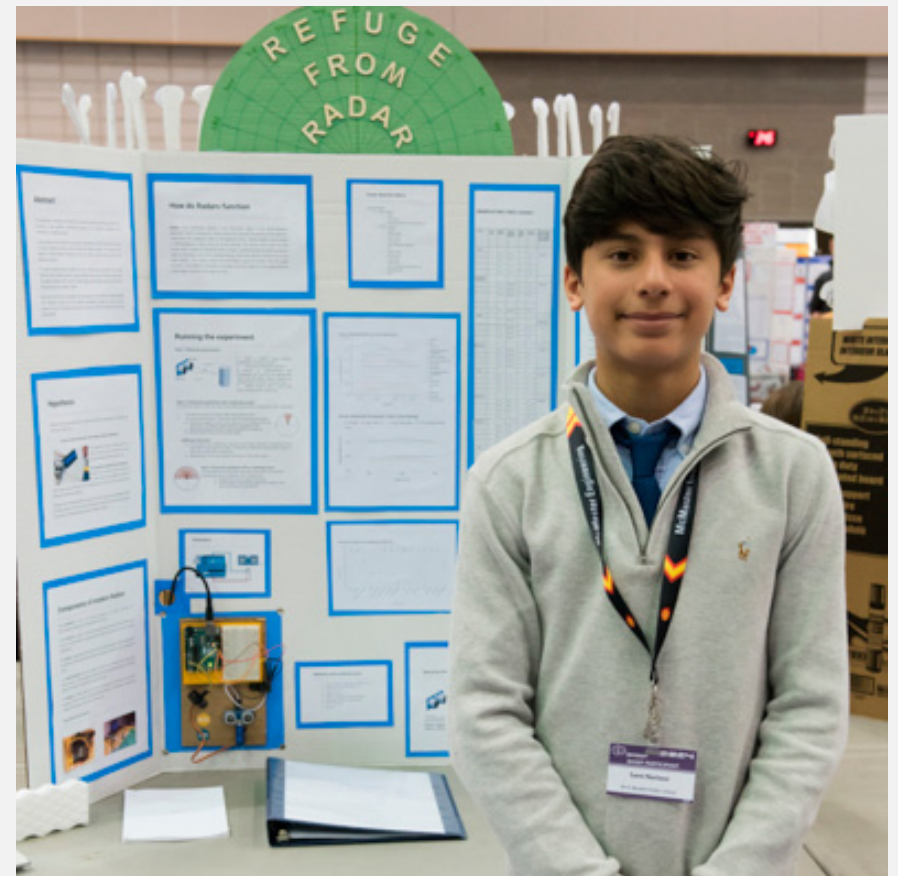


Silver

Sami Nastase

H10
Refuge from Radars

W. H. Morden Public School
Oakville



ArcelorMittal





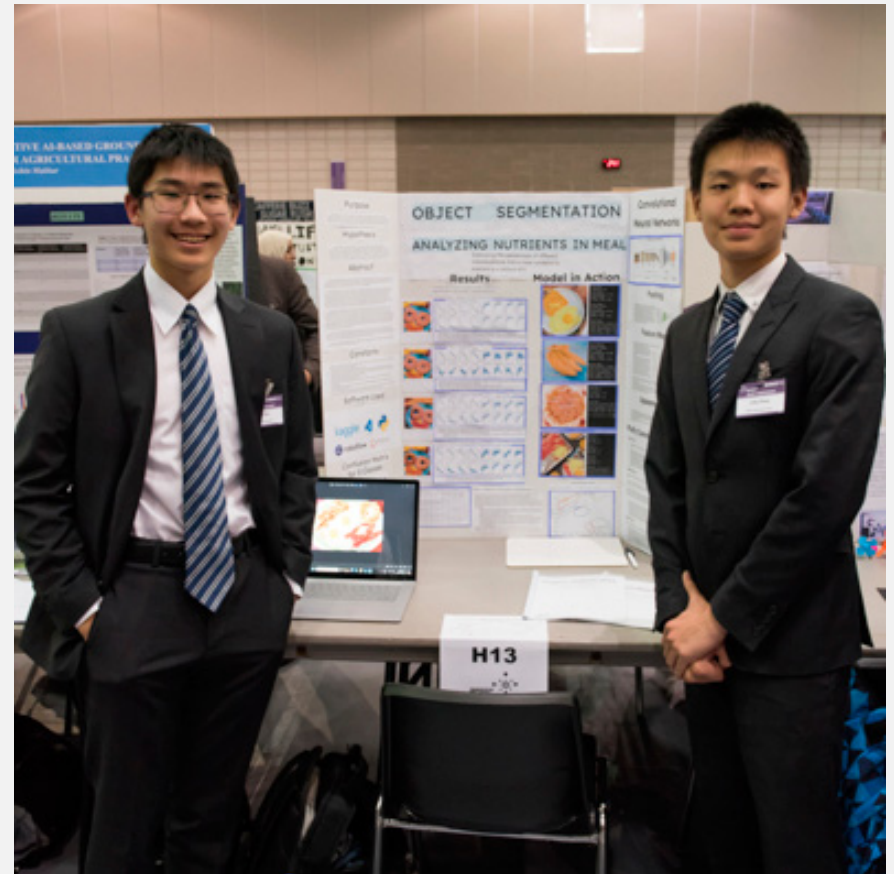
Silver

Daniel Zhu & Cody Zhang

H13

Using Object Segmentation to Analyze Nutrient
Content of Meals

Abbey Park High School
Oakville



ArcelorMittal



Silver

Maria Polyanska

H15

Extending range of VHF/UHF transceivers by improving antenna efficiency for emergency communications

Forest Trail Public School
Oakville



ArcelorMittal





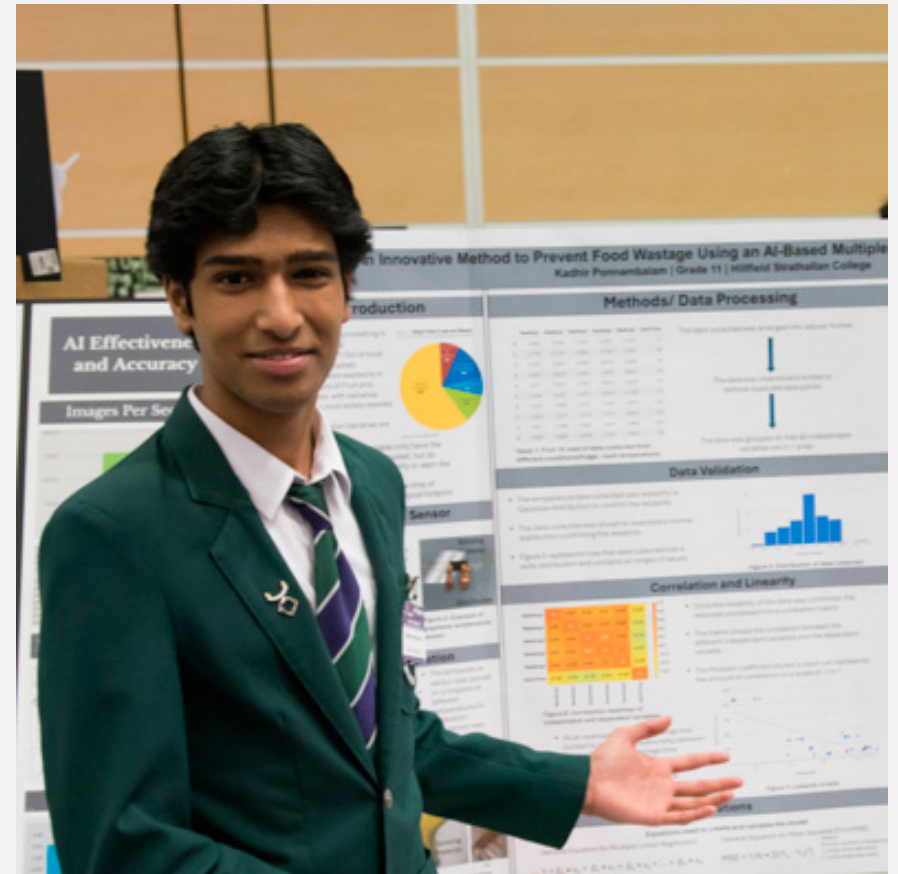
Silver

Kadhir Ponnambalam

J09

An Innovative Method to Prevent Food Waste Using an AI Based Multiple Linear Regression Model

Hillfield Strathallan College
Hamilton



ArcelorMittal





Silver

Will Thomas

J14

From Concept to Code

St. Augustine
Dundas



ArcelorMittal





Silver

Jonathan Vidican

J15

Chaos, break the wave!

St. Mary Elementary School
Oakville



ArcelorMittal





Silver

Emmalina Abou-Assaleh & Sahana Merchant

K06

The Power and Potential of Electromagnetic Radiation

W. H. Morden Public School
Oakville



ArcelorMittal



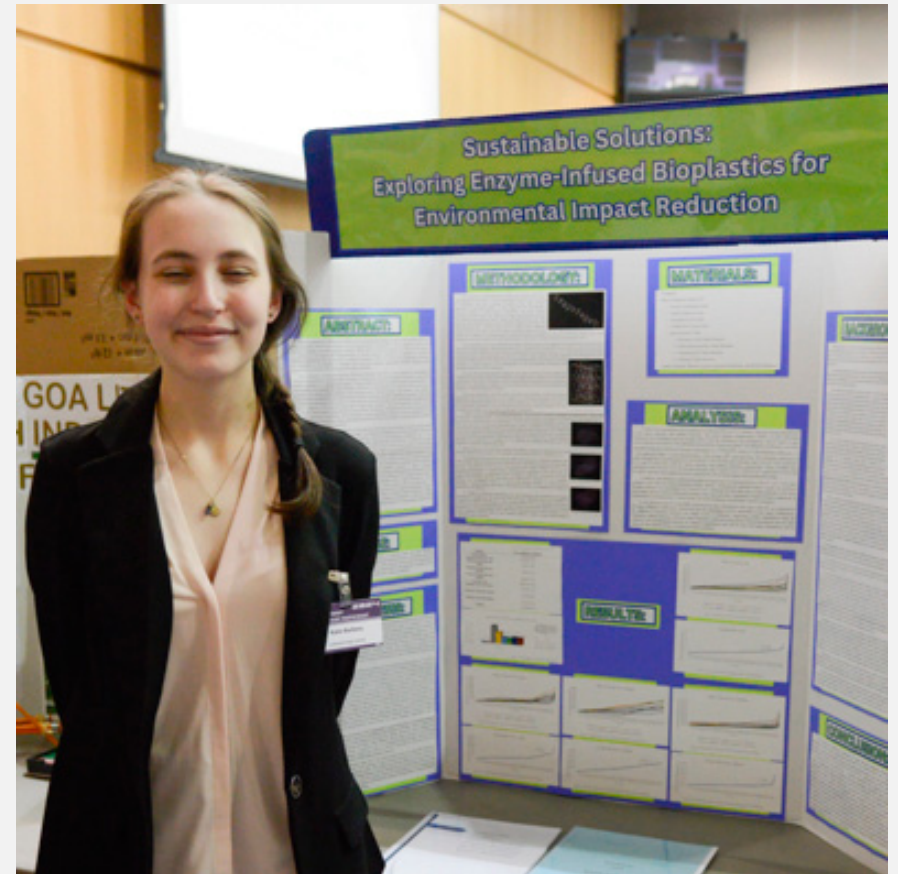
Silver

Katie Barbera

M02

Sustainable Solutions: Exploring Enzyme-Infused Bioplastics for Environmental Impact Reduction

Cathedral High School
Hamilton



ArcelorMittal

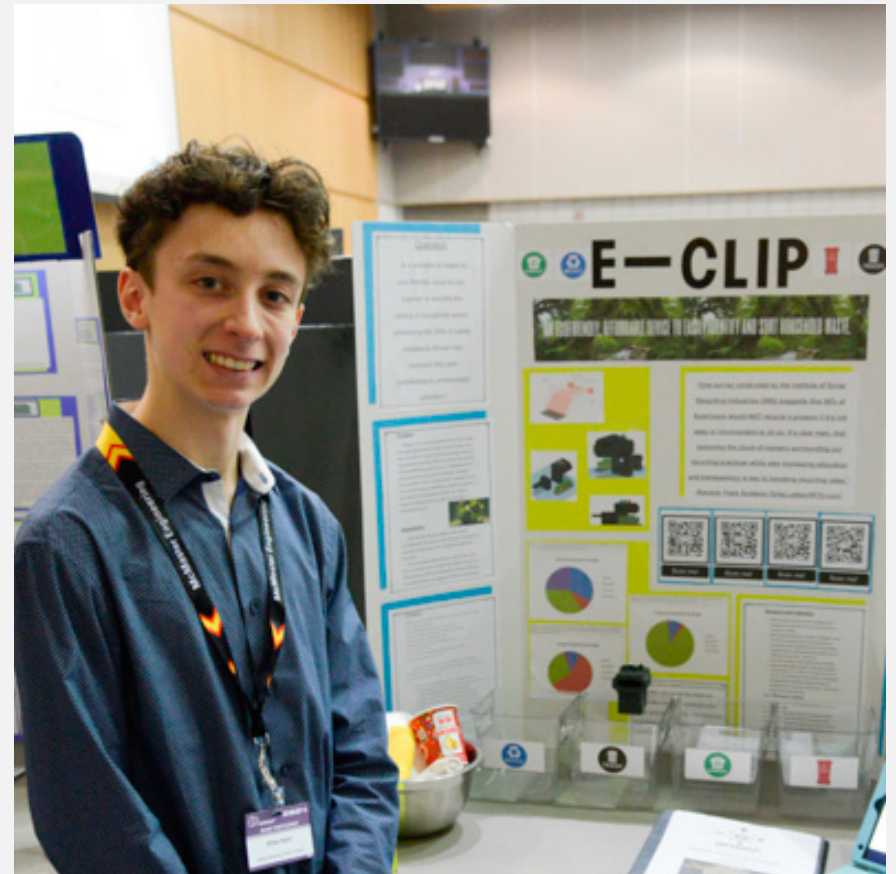


Silver

Ethan Horn

M03
E-Clip

Rolling Meadows Public School
Burlington



ArcelorMittal





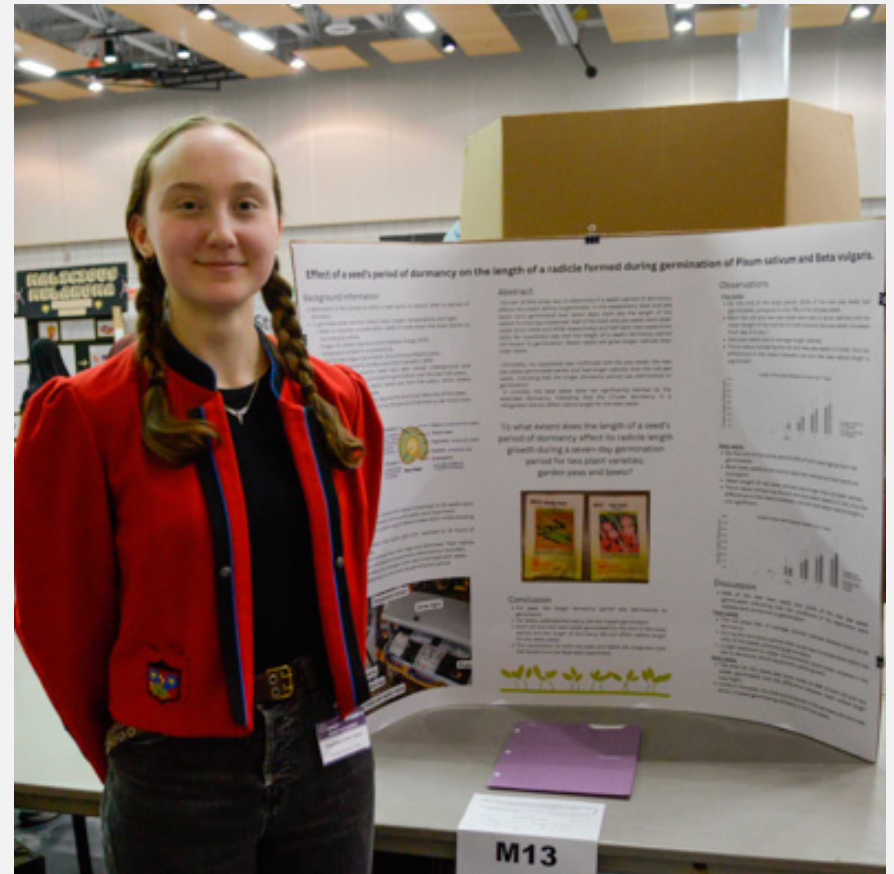
Silver

Artemisia Frolic-Smart

M13

Effect of a seed's period of dormancy on the length of a radicle formed during germination

Westdale Secondary School
Hamilton



ArcelorMittal





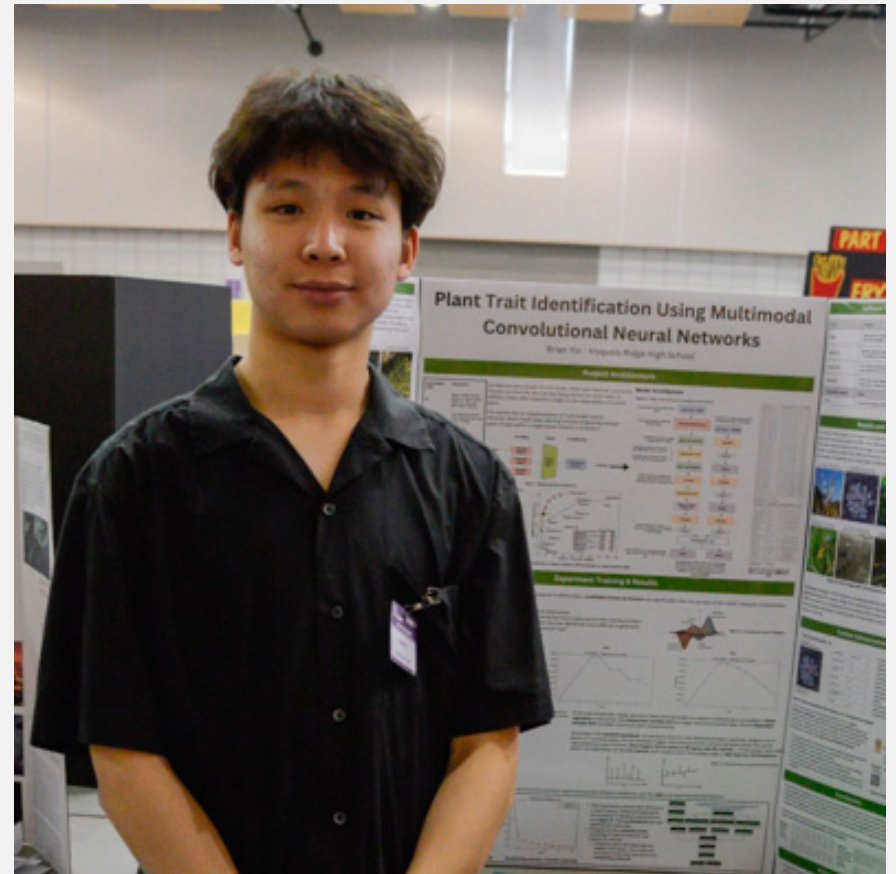
Silver

Brian Yin

M15

Plant Trait Identification Using Convolutional Neural Networks

Iroquois Ridge High School
Oakville



ArcelorMittal





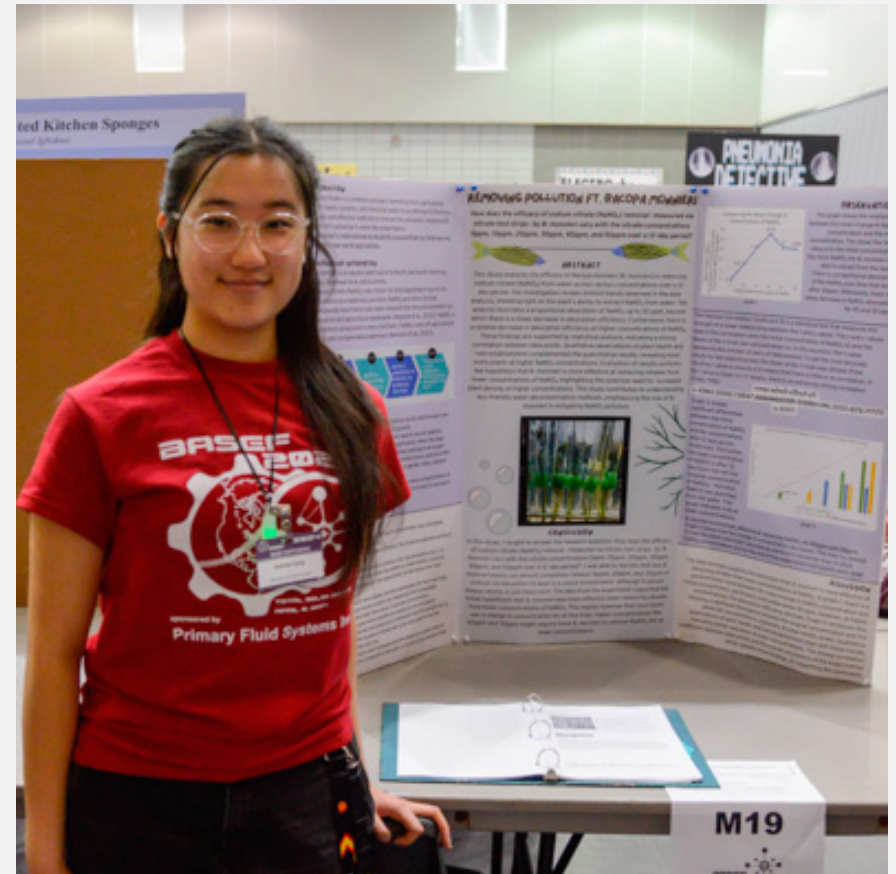
Silver

Bohmie Song

M19

Removing Pollution feat. Bacopa monnieri

Westdale Secondary School
Hamilton



ArcelorMittal



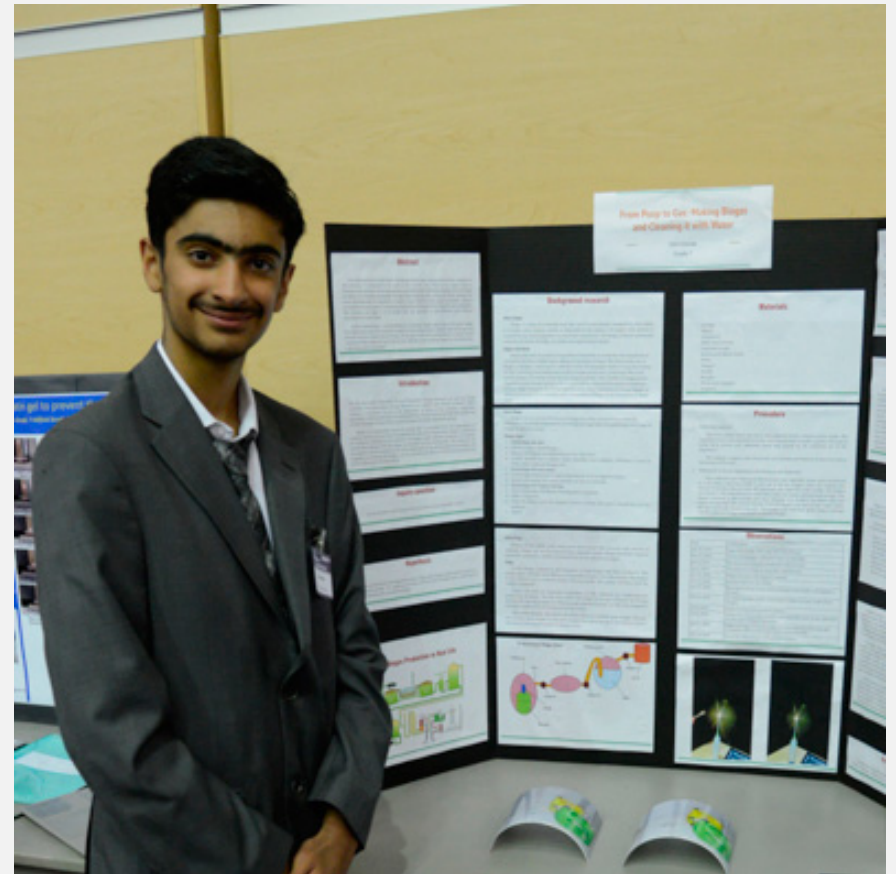
Silver

Sahil Danda

N08

From Poop to Gas: Making Biogas and Cleaning it with Water

W. H. Morden Public School
Oakville



ArcelorMittal



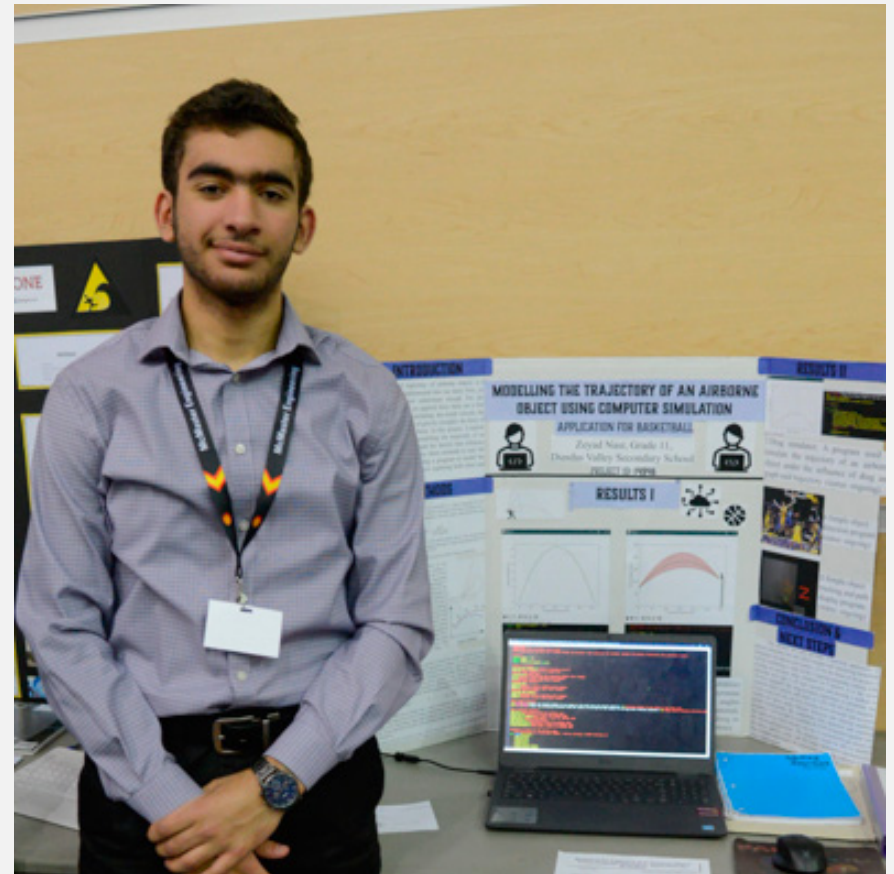
Silver

Zeyad Nasr

N14

Modelling the Trajectory of an Airborne Object Using
Computer Simulation. Application for Basketball

Dundas Valley Secondary School
Dundas



ArcelorMittal





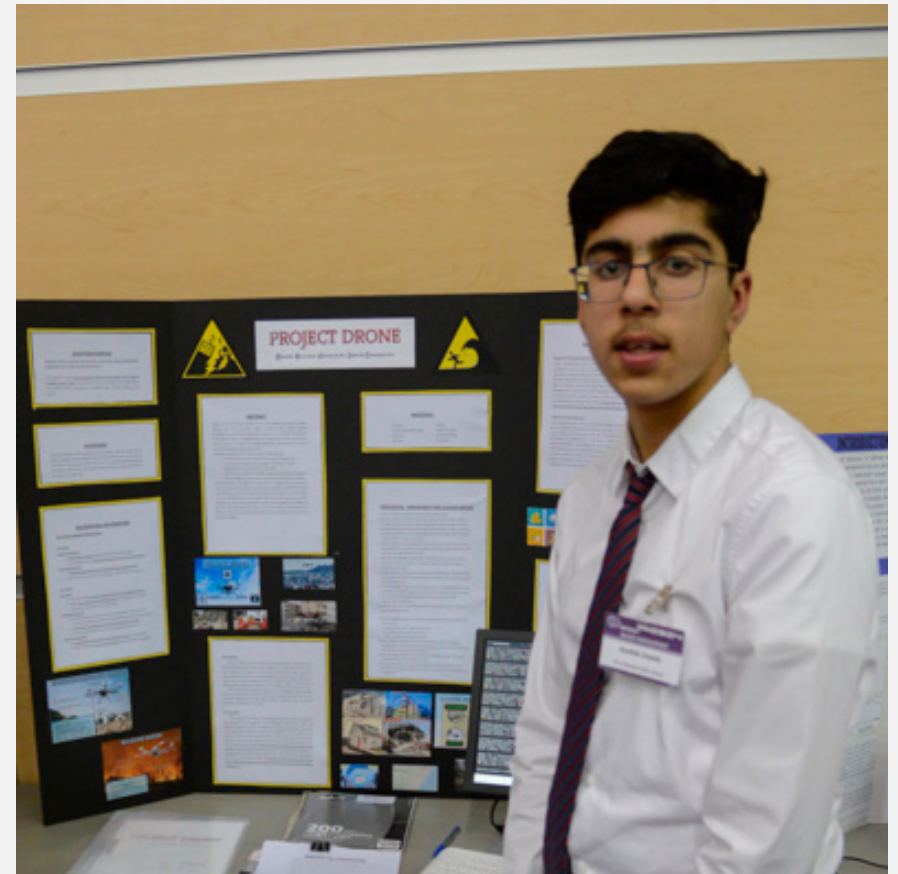
Silver

Karthik Chawla

N15

PROJECT DRONE: Disaster Recovery, Outreach for
Natural Emergencies

W. H. Morden Public School
Oakville



ArcelorMittal





Silver

Kieran Blimkie

N16
Orebot Mk 1

Notre Dame Secondary School
Burlington



ArcelorMittal





Silver

Ruofei Wu & Jaylan Tayal

N18

GreenHound - Your Personal Litter Tracker For a Greener Future

John William Boich Public School
Burlington



ArcelorMittal





Silver

Fiza Mehfil

N20

Detecting and Analyzing Exoplanet Atmospheres
using K-Nearest-Neighbours Algorithm and OpenCV

Milton District High School
Milton



ArcelorMittal





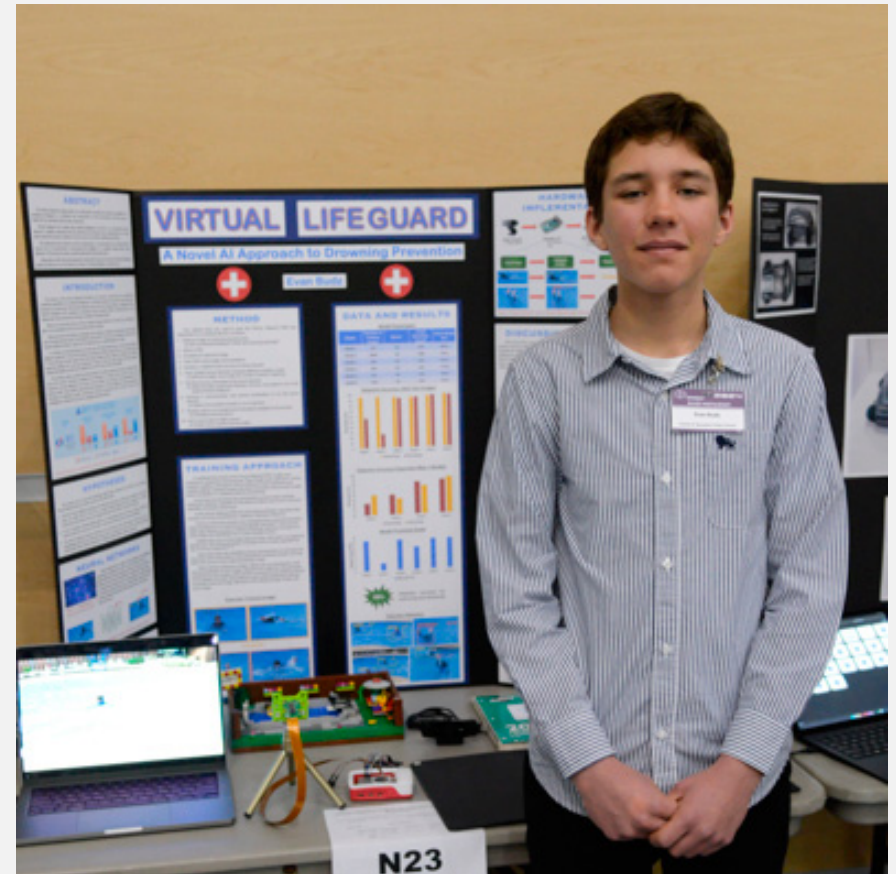
Silver

Evan Budz

N23

Virtual Lifeguard: A Novel AI Approach to Drowning Prevention

Charles R. Beaudoin Public School
Burlington



ArcelorMittal





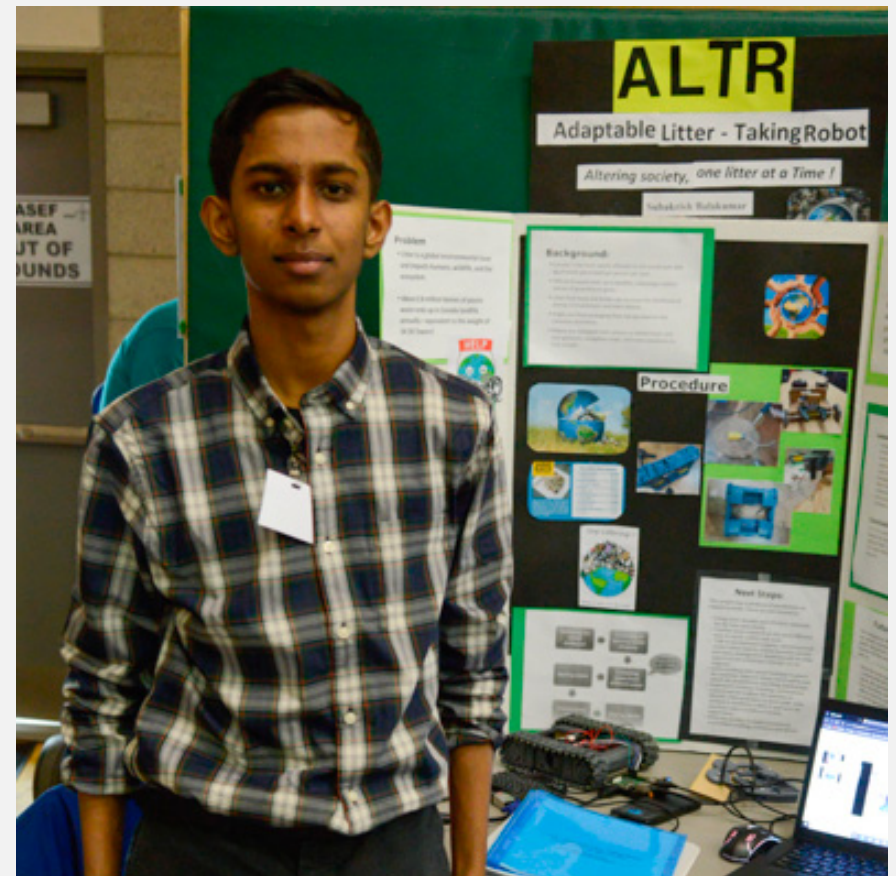
Silver

Subakrish Balakumar

P01

A.L.T.R. 'Altering society, one litter at a time'

Aldershot High School
Burlington



ArcelorMittal





Silver

Jacob LeBlanc

P02

Development of a Novel Integrated System for Electric Vehicle Charging During Vehicle Operation

Abbey Park High School
Oakville



ArcelorMittal





Silver

Bonnie Luo

P05

FlameWatch: A Real-Time TensorFlow and Edge TPU
Powered Home Defense System

White Oaks Secondary School
Oakville



ArcelorMittal





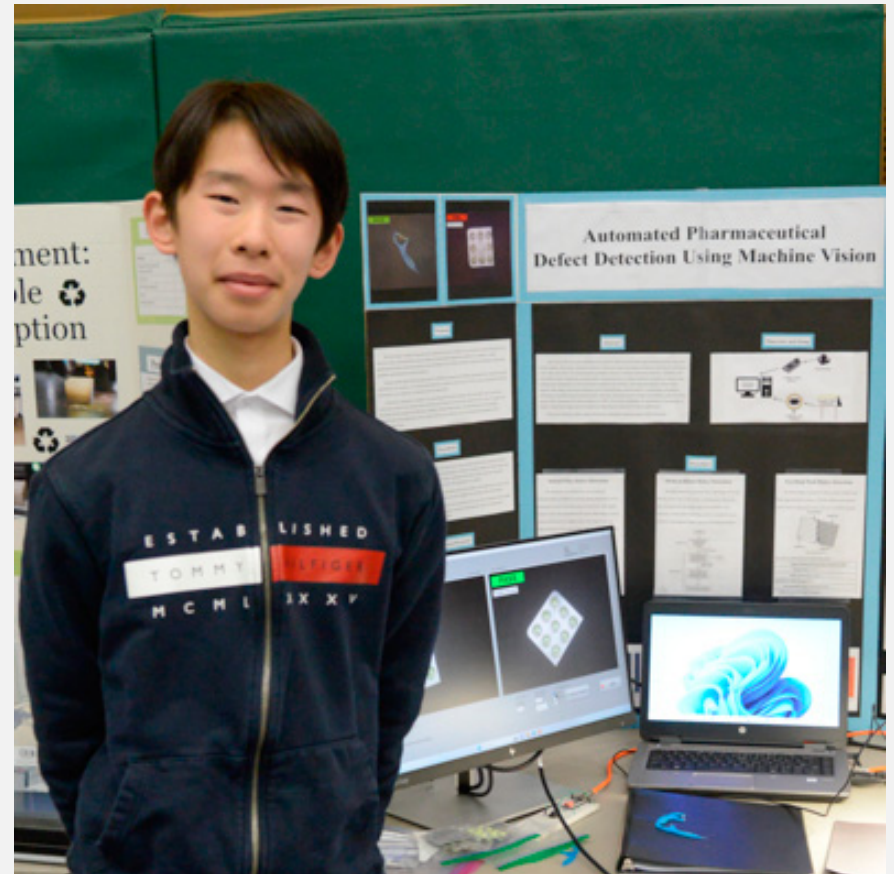
Silver

Zhuo Yang

P07

Automated Pharmaceutical Defect Detection Using
Machine Vision

W. H. Morden Public School
Oakville



ArcelorMittal





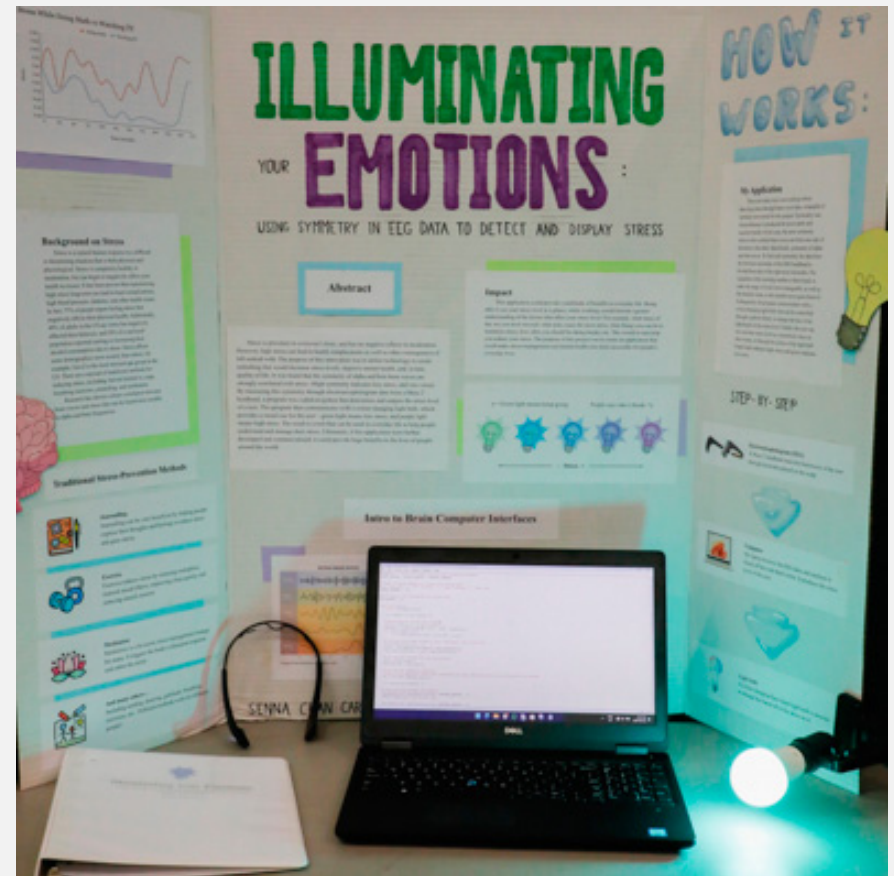
Silver

Senna Chan Carusone

P15

Illuminating Your Emotions: Using Symmetry in Electroencephalogram Data to Detect and Display Stress Levels

Burlington Central High School
Burlington



ArcelorMittal





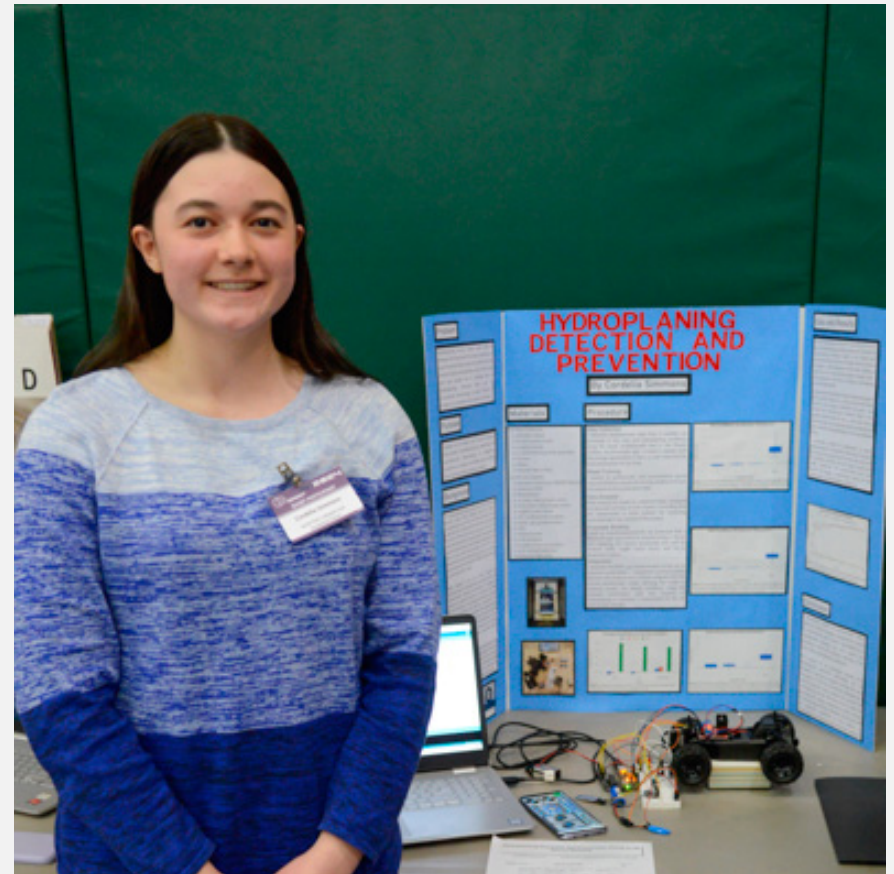
Silver

Cordelia Simmons

P17

Hydroplaning Detection and Prevention Using an AI
Neural Network

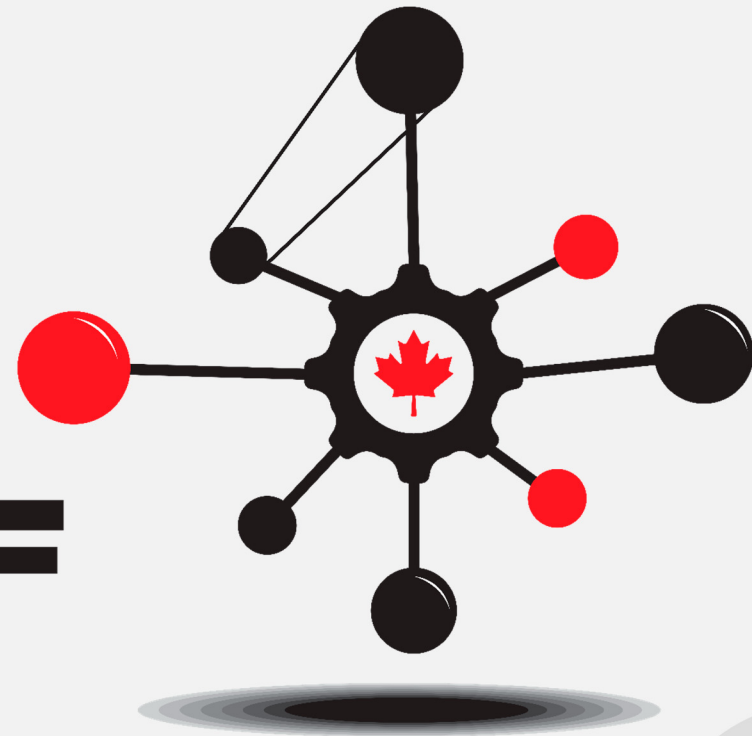
North Park Collegiate and Vocational School
Brantford



ArcelorMittal



Gold Merit Awards



BASEF





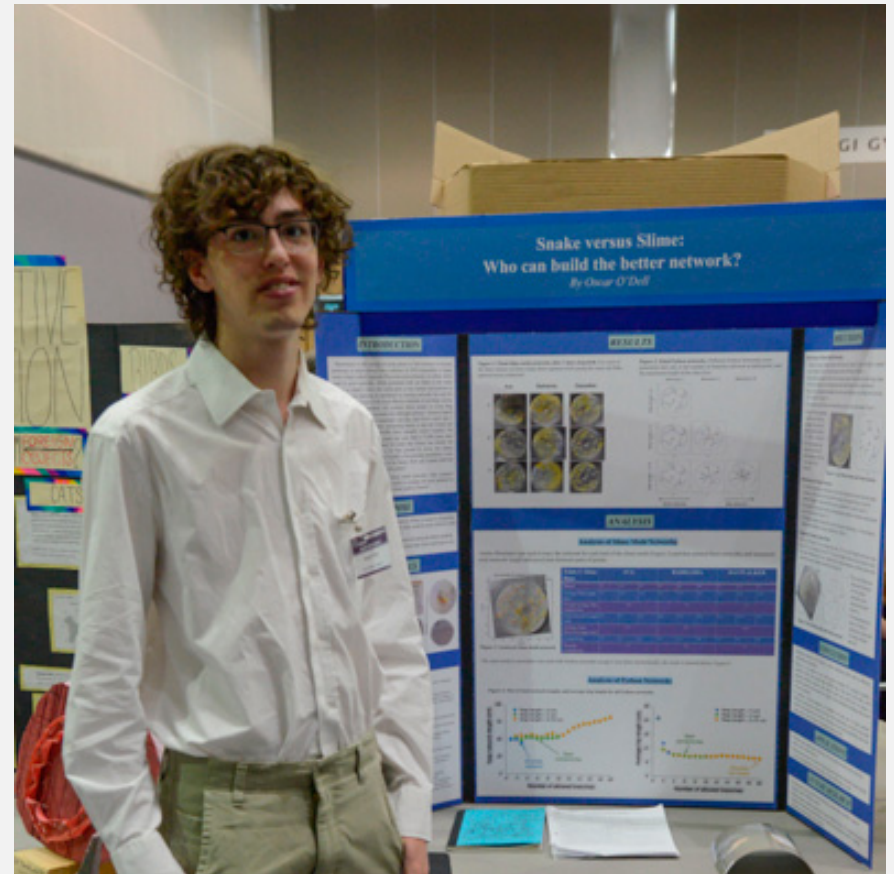
Gold

Oscar O'Dell

A19

Snake versus Slime: Who can build the better network?

King's Christian Collegiate
Oakville



ArcelorMittal



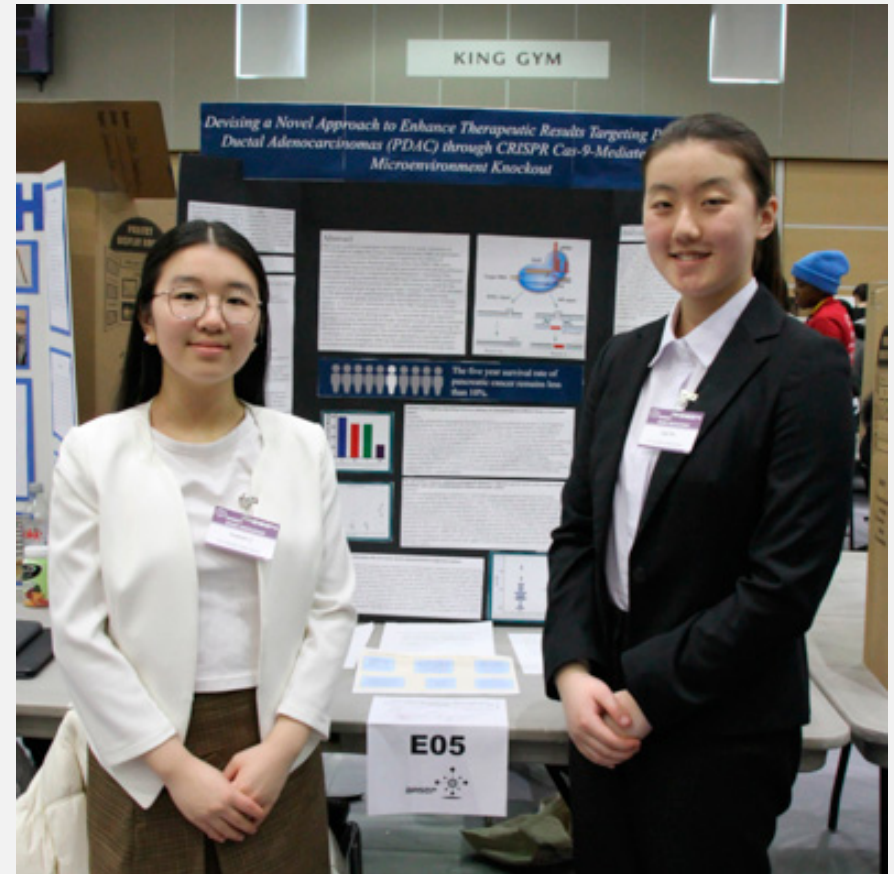
Gold

Siqi Tan & Yüewen Li

E05

Improving PDAC Prognosis: Novel Approach Utilising
CRISPR-Mediated Gene Knockout for TME Disruption

W. H. Morden Public School
Oakville



ArcelorMittal





Gold

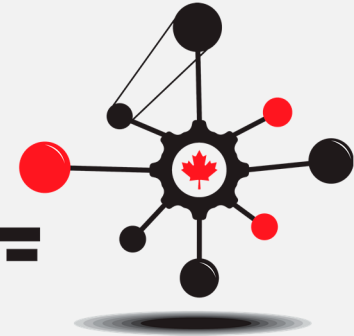
Rakshan Saravanan

E07

The electrocorpulgraph: Can AI change auscultation?

Ancaster High
Ancaster

BASEF





Gold

Nicholas Pacifici

H08

The PrepStep: A Mobile Health Platform to Detect Ventricular Cardiomyopathy in Athletes Using AI

St. Mary Secondary School
Hamilton



ArcelorMittal





Gold

Bahaa Al Deen Alsaadi & Zena Alsaadi

J12

Bits to Bedside: An Ingenious Exploration of Machine Learning in Triage Assessments

Al-Falah Islamic School
Oakville



ArcelorMittal





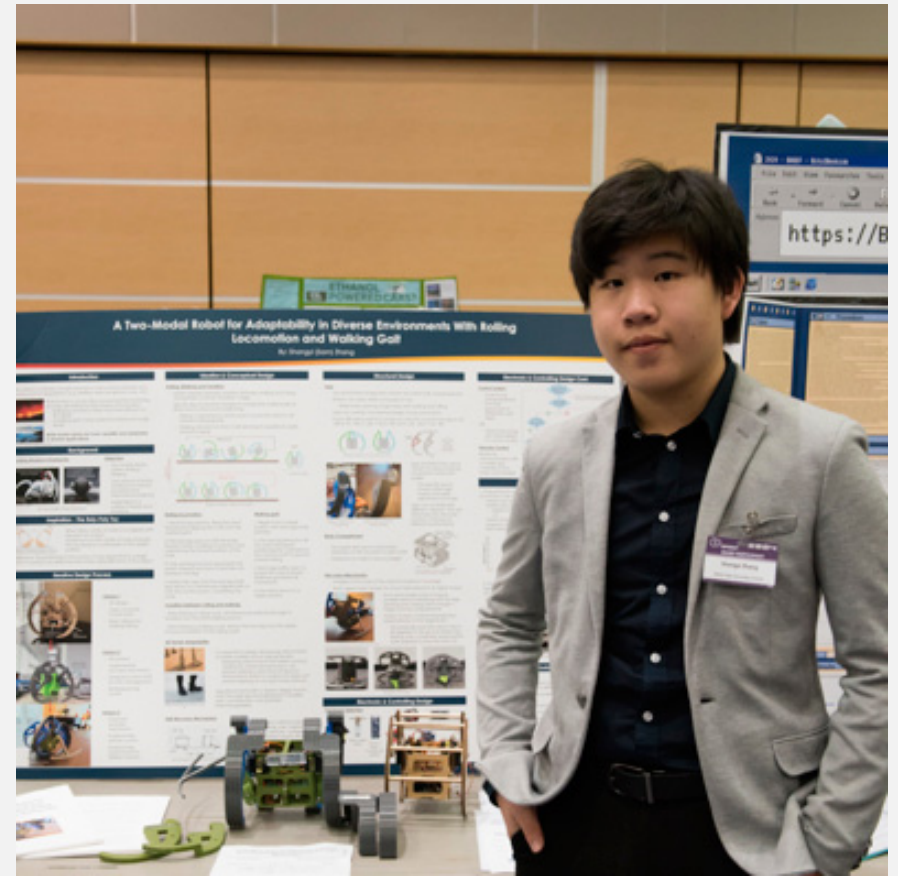
Gold

Shangyi Zhang

J13

A Two-Modal Robot for Adaptability in Diverse Environments With Rolling Locomotion and Walking Gait

White Oaks Secondary School
Oakville



ArcelorMittal





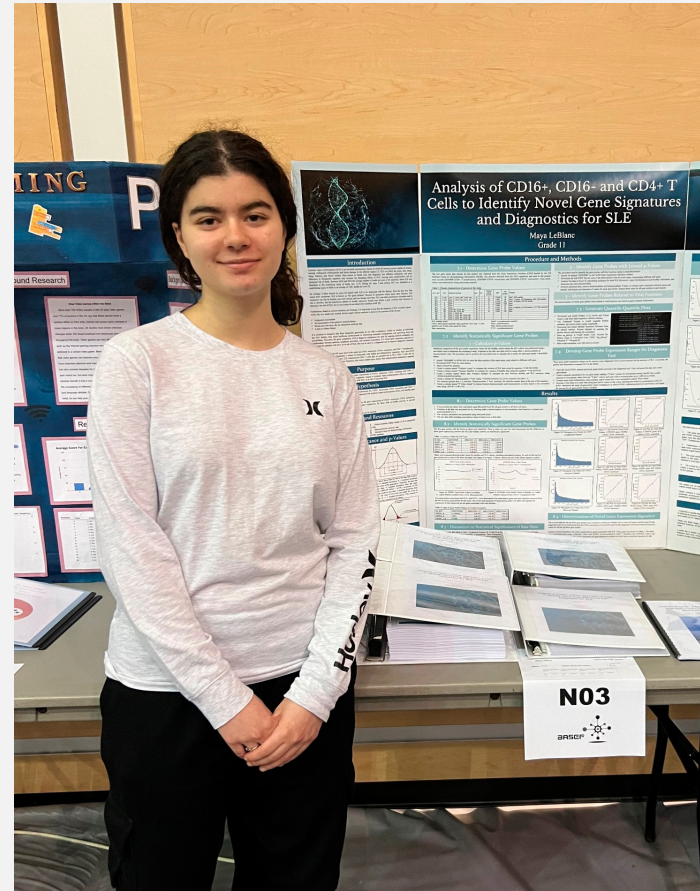
Gold

Maya LeBlanc

N03

Analysis of CD16+, CD16- and CD4+ T Cells to Identify Novel Gene Signatures and Diagnostics for SLE

Abbey Park High School
Oakville



ArcelorMittal





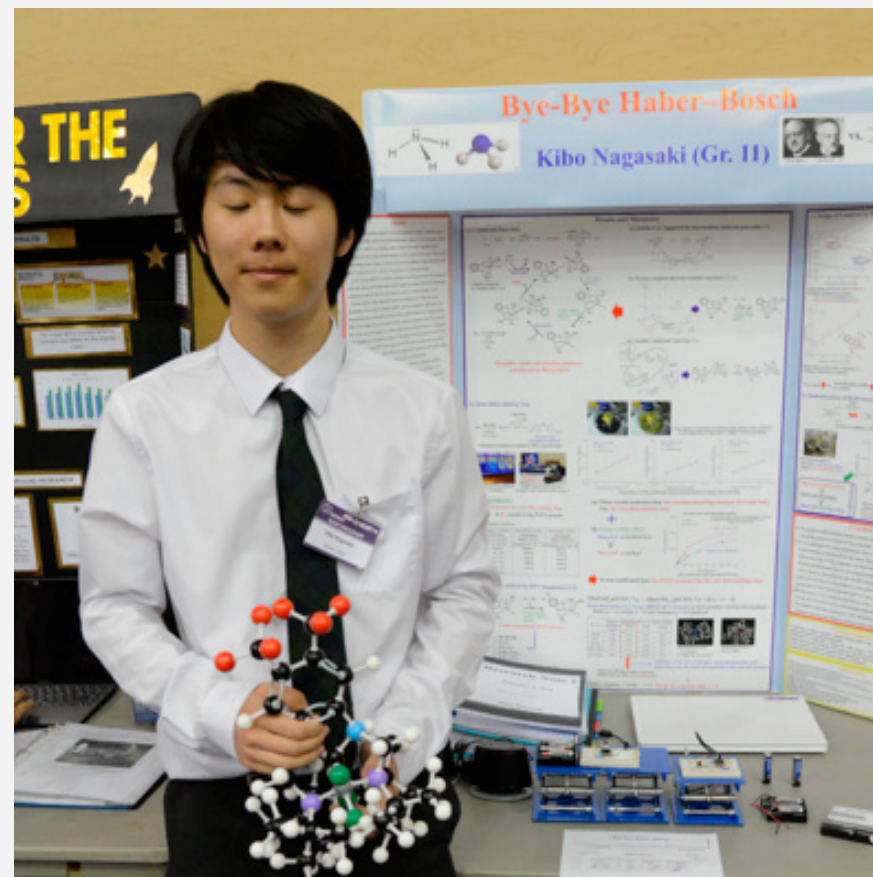
Gold

Kibo Nagasaki

N10

Bye-Bye Haber-Bosch

Mentor College
Mississauga



ArcelorMittal





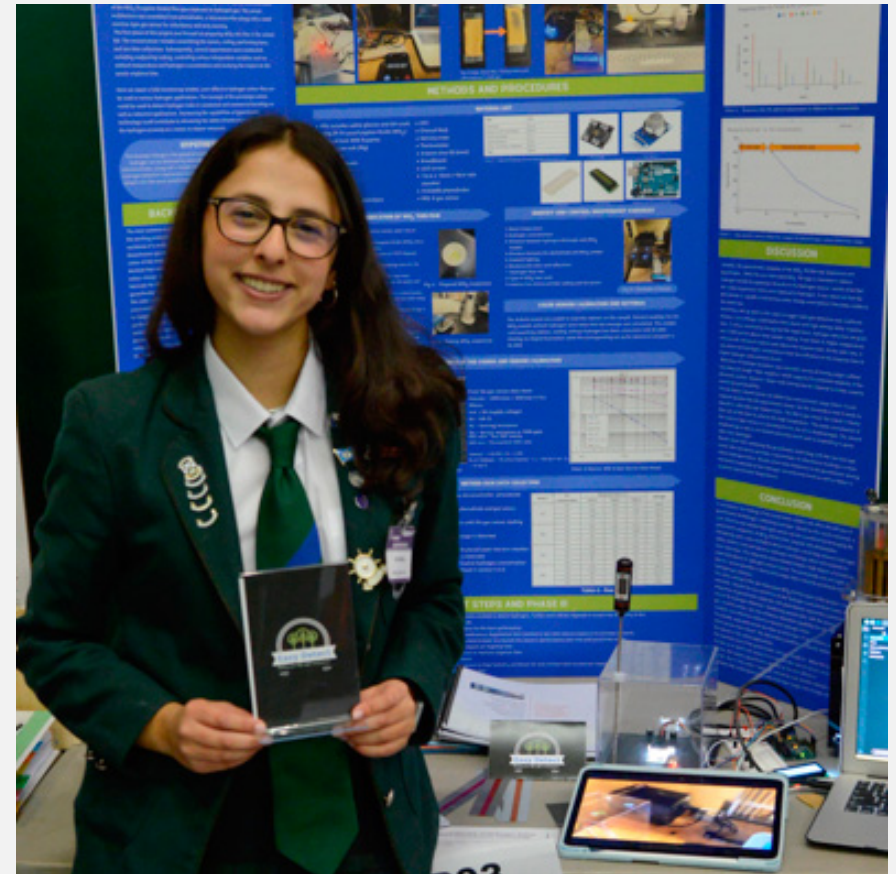
Gold

Alia Wahban

P03

Redefining the Landscape of Hydrogen Safety using
Innovative Gasochromic Technology

Hillfield Strathallan College
Hamilton



ArcelorMittal





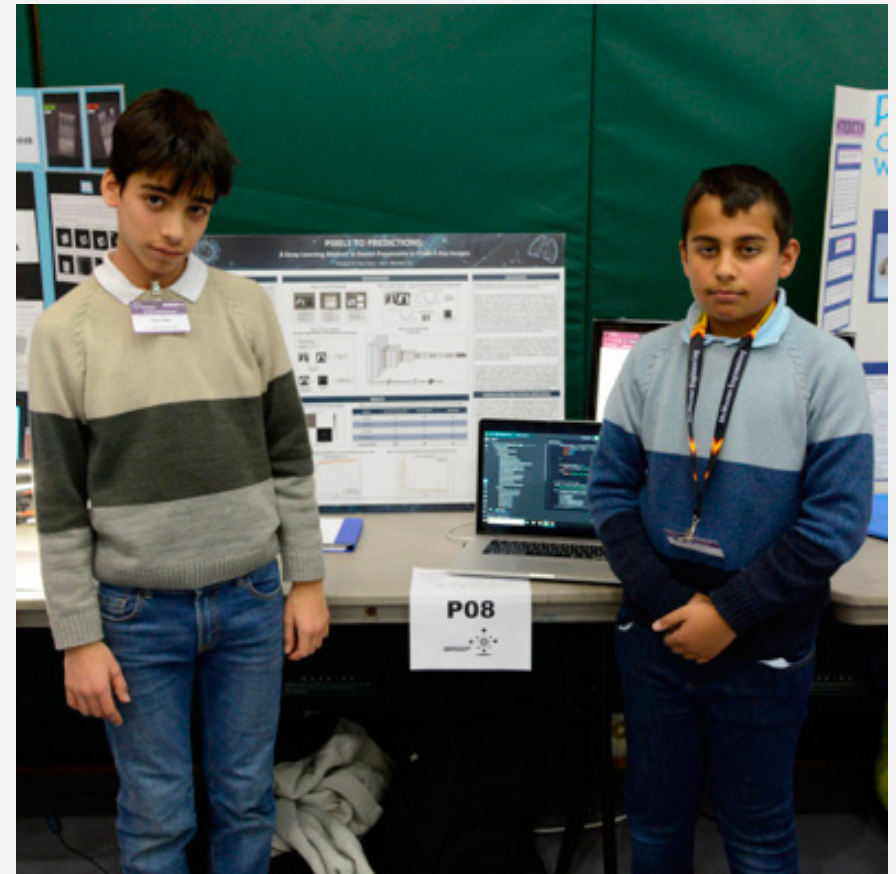
Gold

Daniyal Qazi & Zayn Qazi

P08

From Pixels to Predictions: A Deep Learning Method
to Detect Pneumonia in Chest X-Ray Images

W. H. Morden Public School
Oakville



ArcelorMittal





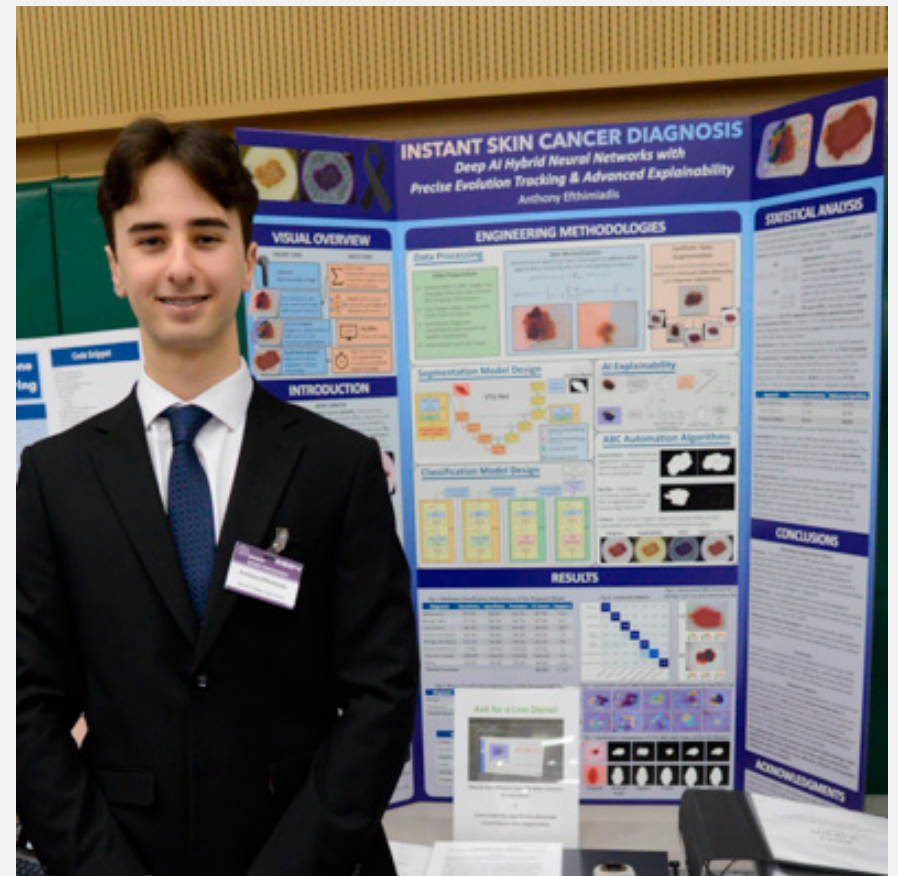
Gold

Anthony Efthimiadis

P11

Instant Skin Cancer Diagnosis: AI Hybrid Neural Networks with Precise Evolution Tracking

Oakville Trafalgar High School
Oakville



ArcelorMittal





Gold

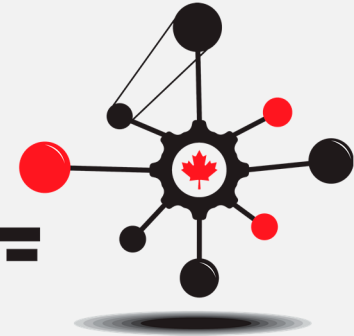
William Xu

P13

Accessible microscopy! A cellphone microscope for high-resolution, large FOV, and high-speed imaging

Dundas Valley Secondary School
Dundas

BASEF



ArcelorMittal



Gold

Lily Song

P16
Talk to the Hand

North Park Collegiate and Vocational School
Brantford



ArcelorMittal





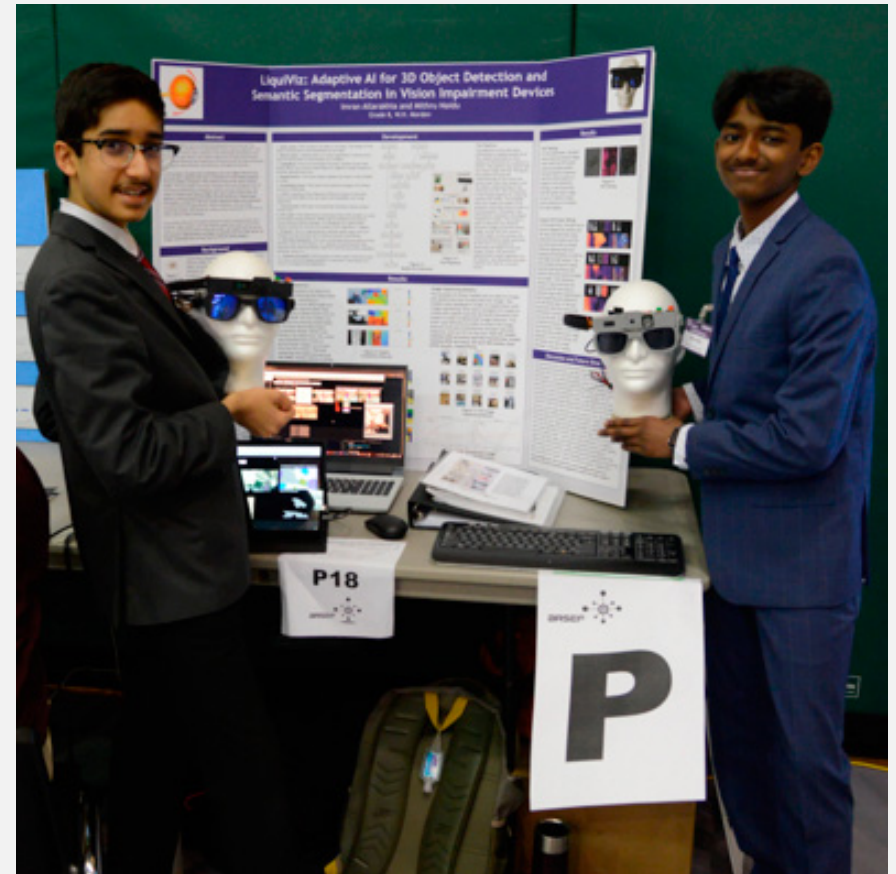
Gold

Imran Allarakhia & Mithru Naidu

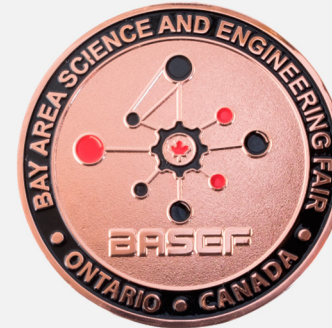
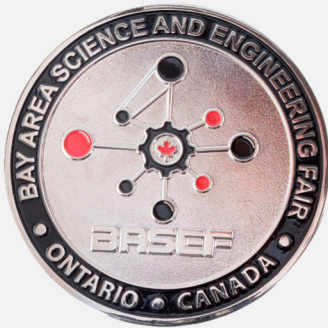
P18

LiquiViz: Adaptive AI for 3D Object Detection and Semantic Segmentation in Vision Impairment Devices

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Oakville



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Please Congratulate
our
Merit Winners



Grand Awards



Champion Teacher

Champion Teacher



Allison Janssen

**White Oaks Secondary School
Halton District School Board**



School Awards



BASEF Committee Trophy (Elementary School)



BASEF Committee Trophy



**W.H. Morden
Public School**



Herb Gildea Memorial Trophy (Secondary School)



Herb Gildea Memorial Trophy



**White Oaks
Secondary School**



Chairs' Award



Chairs' Award

Zoha Fatima Quadry

A16

Using Luciferase to detect toxins that affect oxygen levels in the environment

Abbey Park High School
Oakville



Roy Middleton Award

Best Junior Project

BASEF 2024



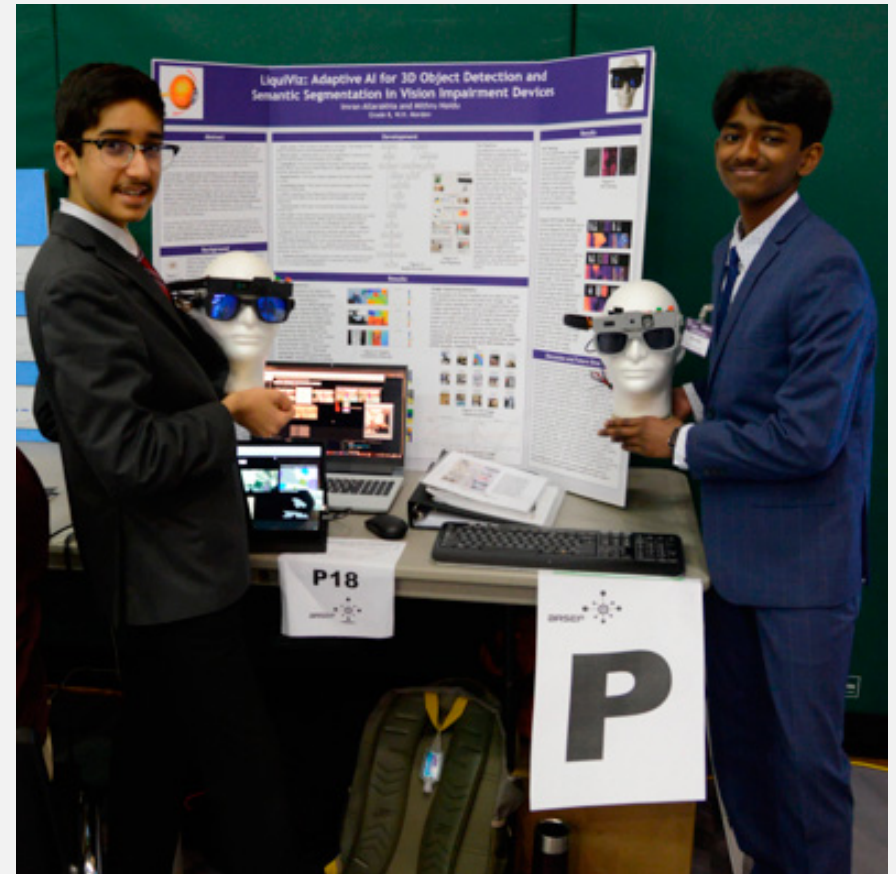
Roy Middleton Memorial Award

Imran Allarakhia & Mithru Naidu

P18

LiquiViz: Adaptive AI for 3D Object Detection and Semantic Segmentation in Vision Impairment Devices

W. H. Morden Public School
Oakville



Drs. Ranjan and Monalisa Sur Award Best High School Project



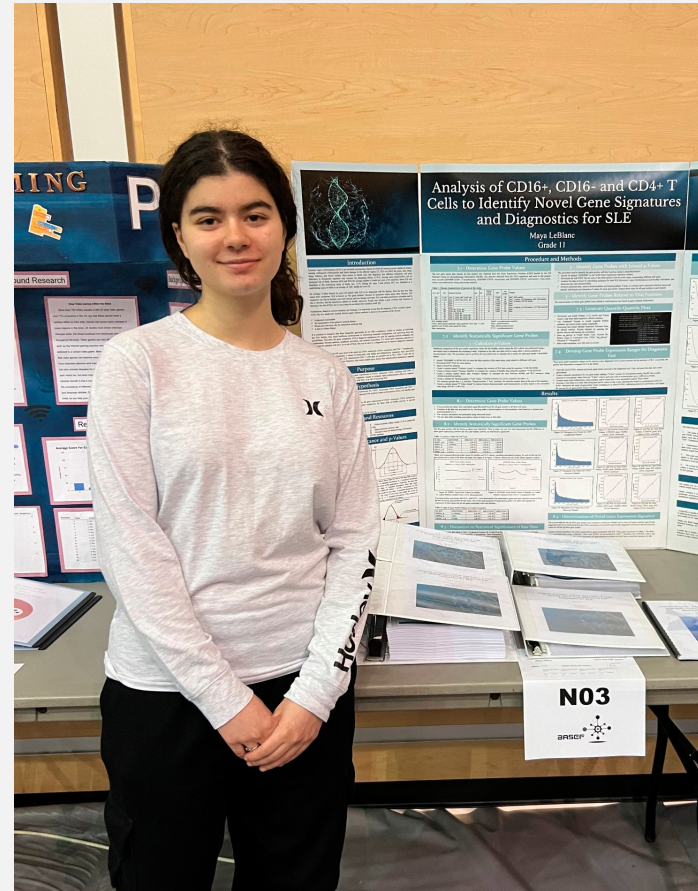
Drs. Ranjan Sur and Monalisa Sur
Award

Maya LeBlanc

N03

Analysis of CD16+, CD16- and CD4+ T Cells to
Identify Novel Gene Signatures and Diagnostics for
SLE

Abbey Park High School
Oakville





Primary Fluid Systems Inc.

Pinnacle Awards & Trophies



Pinnacle Award & Trophy Best Overall Project Third Place



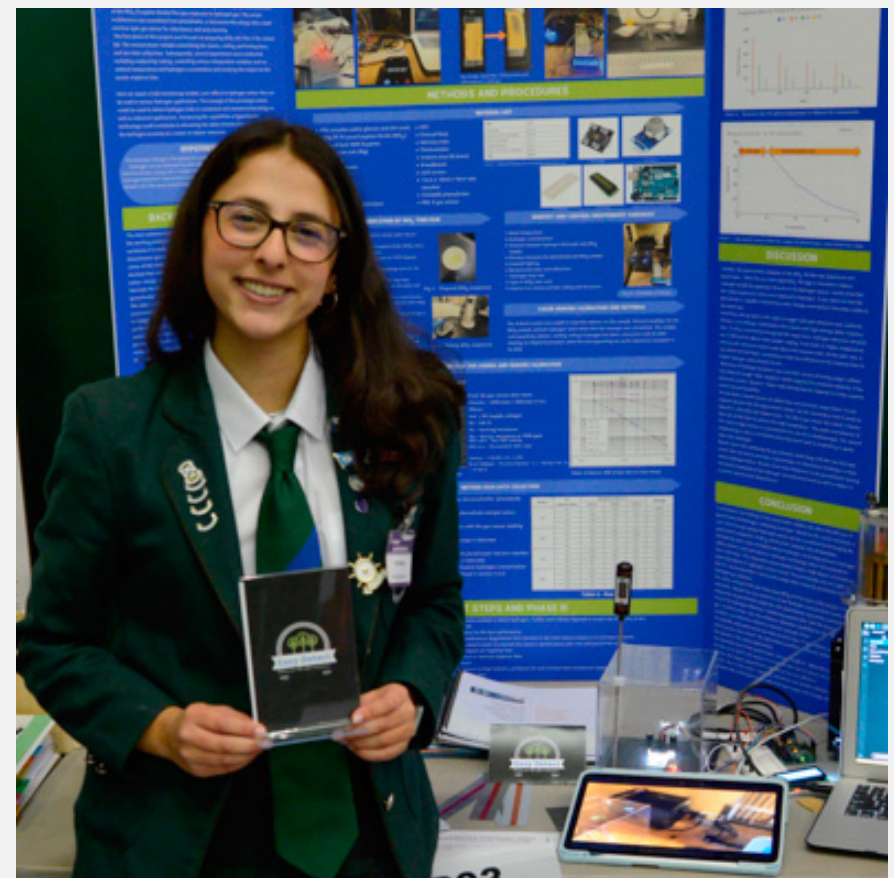
Primary Fluid Systems Pinnacle Third Best in Fair

Alia Wahban

P03

Redefining the Landscape of Hydrogen Safety using
Innovative Gasochromic Technology

Hillfield Strathallan College
Hamilton



Pinnacle Award & Trophy Best Overall Project Second Place



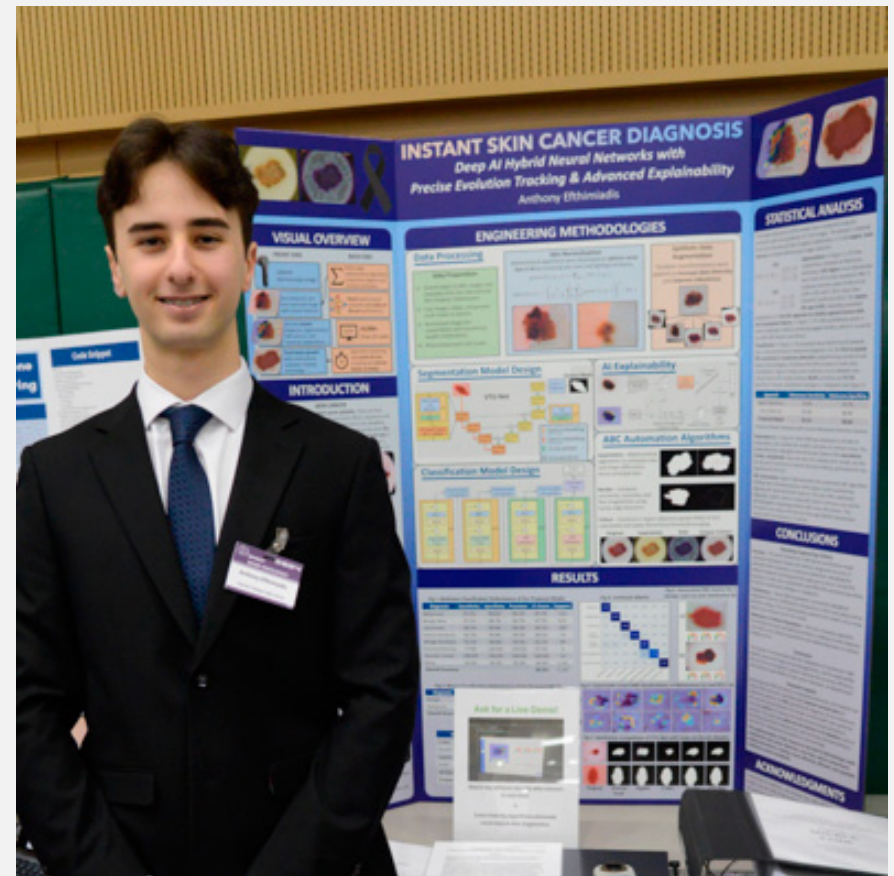
Primary Fluid Systems Pinnacle Second Best in Fair

Anthony Efthimiadis

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Oakville Trafalgar High School
Oakville



Pinnacle Award & Trophy Best Overall Project First Place



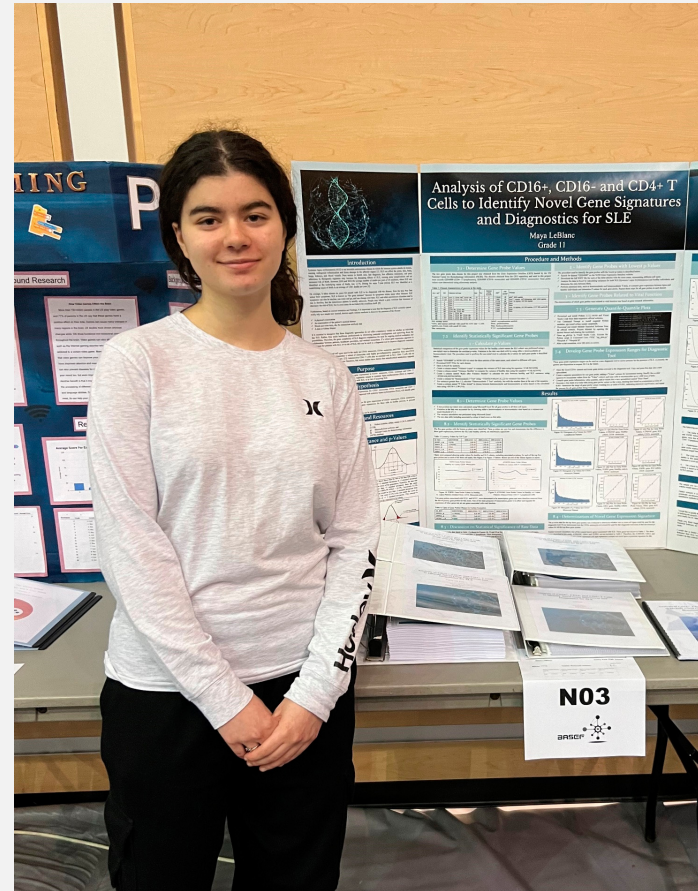
Primary Fluid Systems Pinnacle Best in Fair

Maya LeBlanc

N03

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Identify Novel Gene Signatures and Diagnostics for
SLE

Abbey Park High School
Oakville



Trip Awards





Sponsoring Organizations



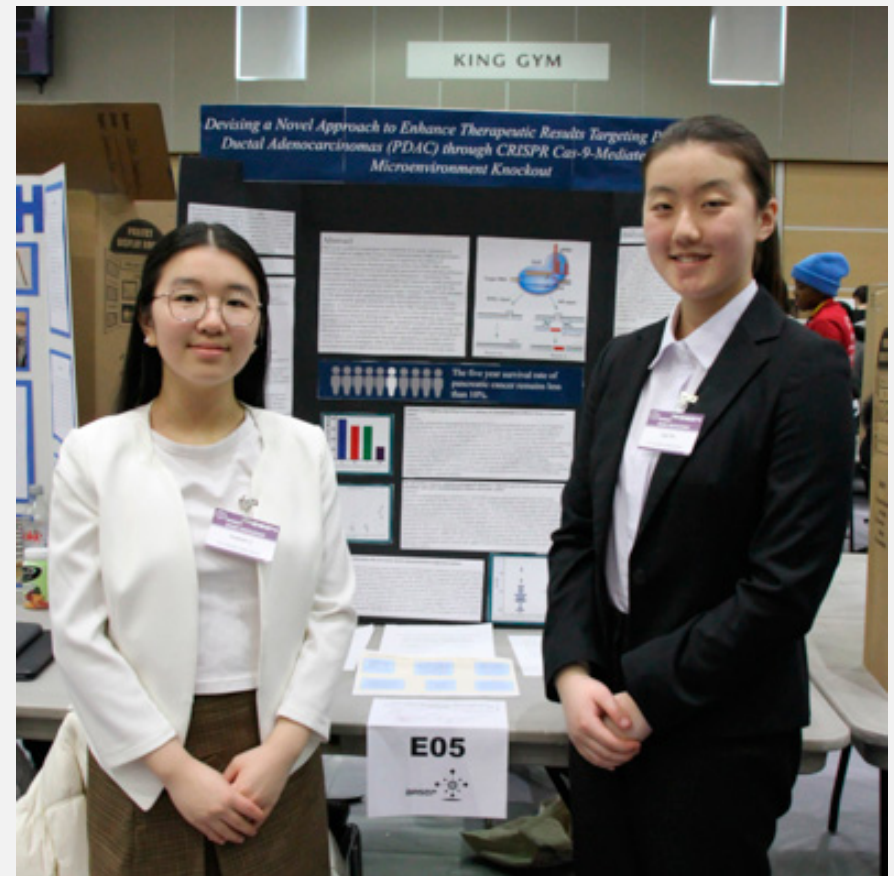
Canada-Wide Science Fair Trip Award

Siqi Tan & Yuewen Li

E05

Improving PDAC Prognosis: Novel Approach Utilising
CRISPR-Mediated Gene Knockout for TME Disruption

W. H. Morden Public School
Oakville



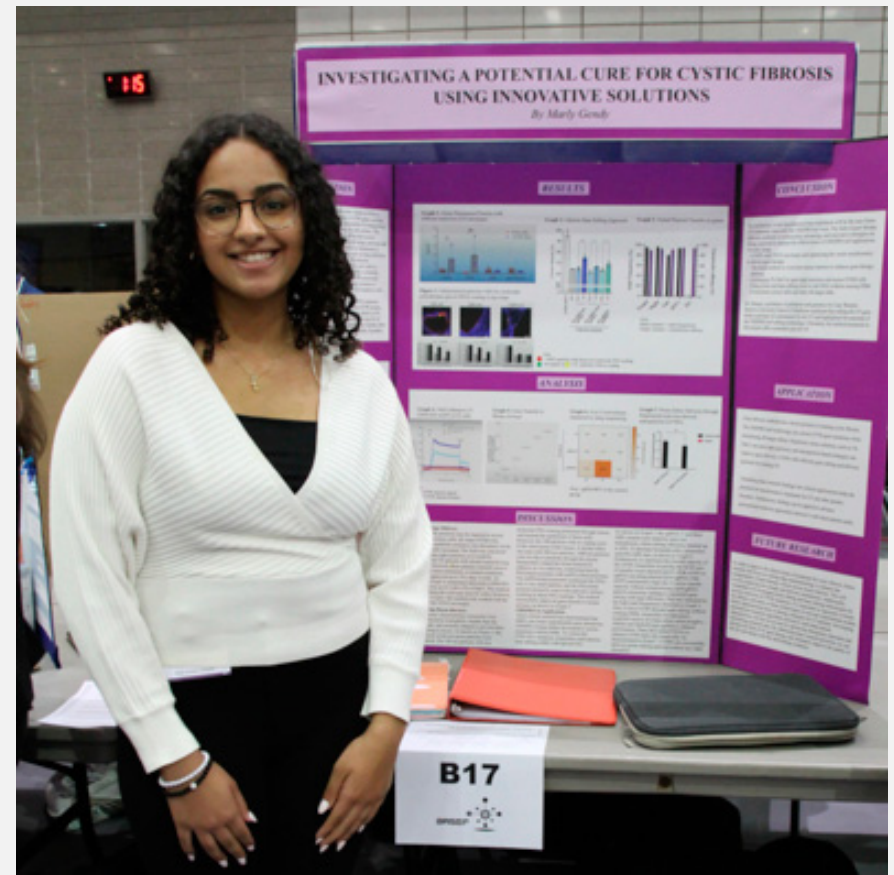
Canada-Wide Science Fair Trip Award

Marly Gendy

B17

Investigating Potential Cure for Cystic Fibrosis Using Innovative Solutions

King's Christian Collegiate
Oakville



Canada-Wide Science Fair Trip Award

Bahaa Al Deen Alsaadi & Zena Alsaadi

J12

Bits to Bedside: An Ingenious Exploration of Machine Learning in Triage Assessments

Al-Falah Islamic School
Oakville



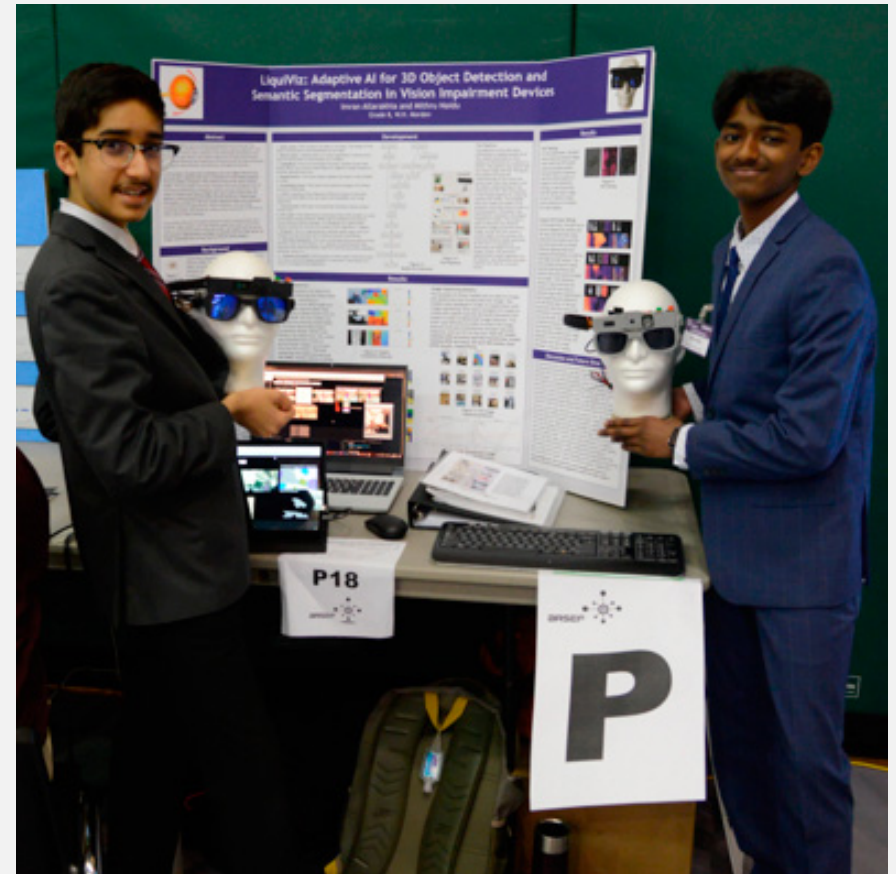
Canada-Wide Science Fair Trip Award

Imran Allarakhia & Mithru Naidu

P18

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Oakville



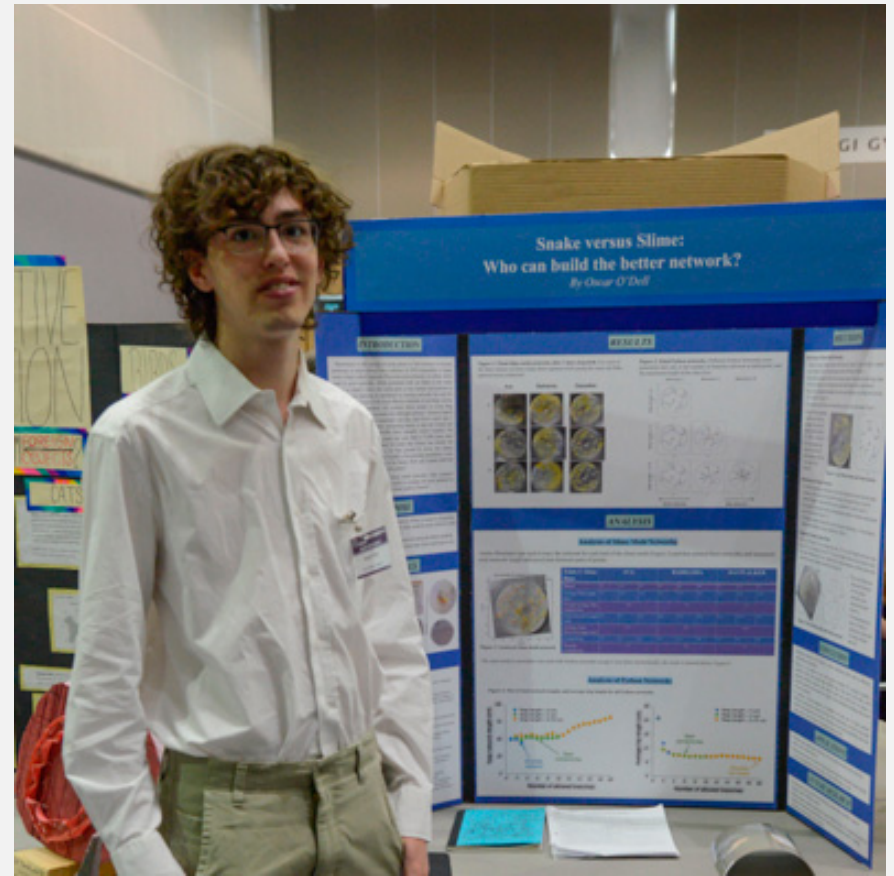
Canada-Wide Science Fair Trip Award

Oscar O'Dell

A19

Snake versus Slime: Who can build the better network?

King's Christian Collegiate
Oakville



Canada-Wide Science Fair Trip Award

Nicholas Pacifici

H08

The PrepStep: A Mobile Health Platform to Detect Ventricular Cardiomyopathy in Athletes Using AI

St. Mary Secondary School
Hamilton



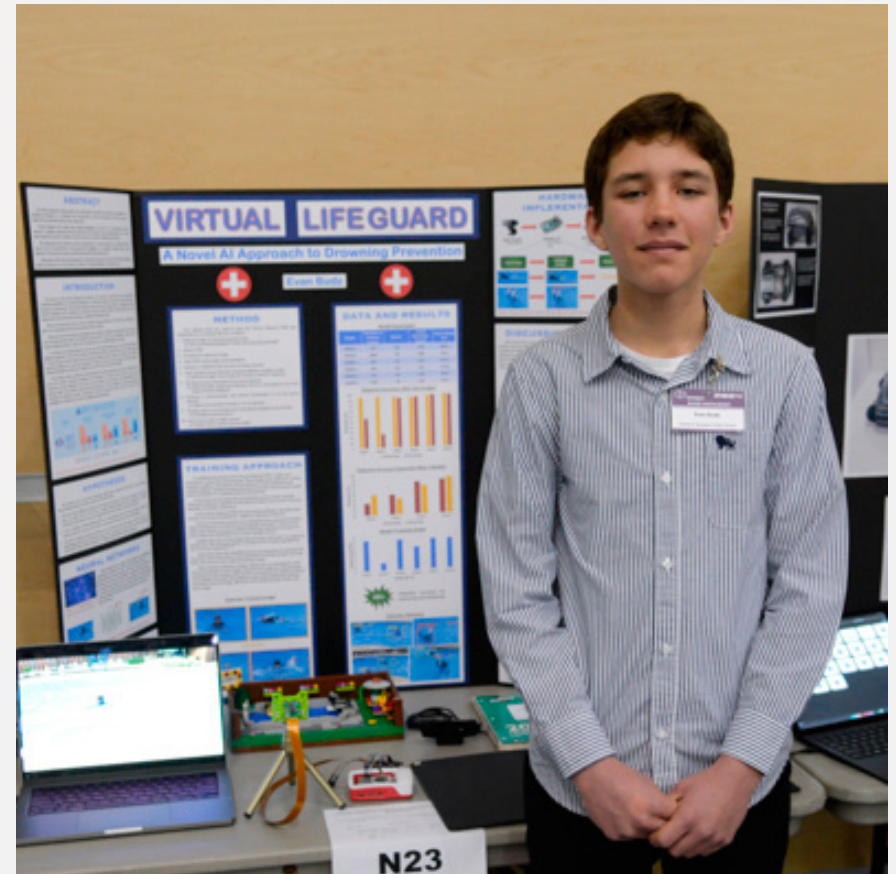
Canada-Wide Science Fair Trip Award

Evan Budz

N23

Virtual Lifeguard: A Novel AI Approach to Drowning Prevention

Charles R. Beaudoin Public School
Burlington

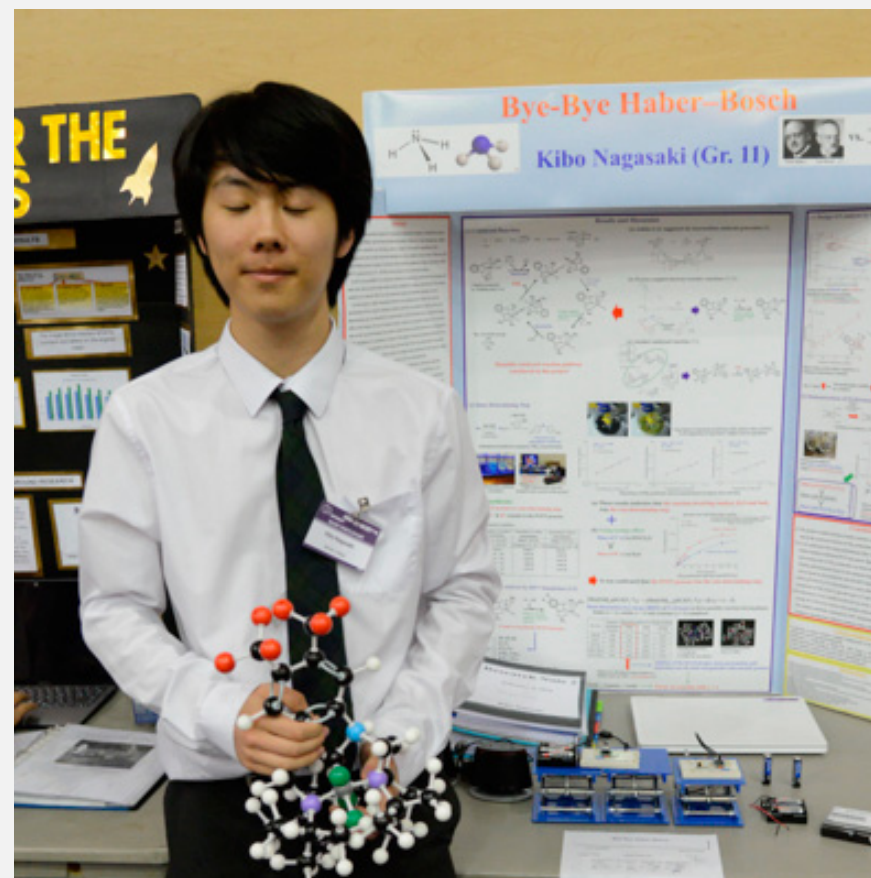


Canada-Wide Science Fair Trip Award

Kibo Nagasaki

N10
Bye-Bye Haber-Bosch

Mentor College
Mississauga



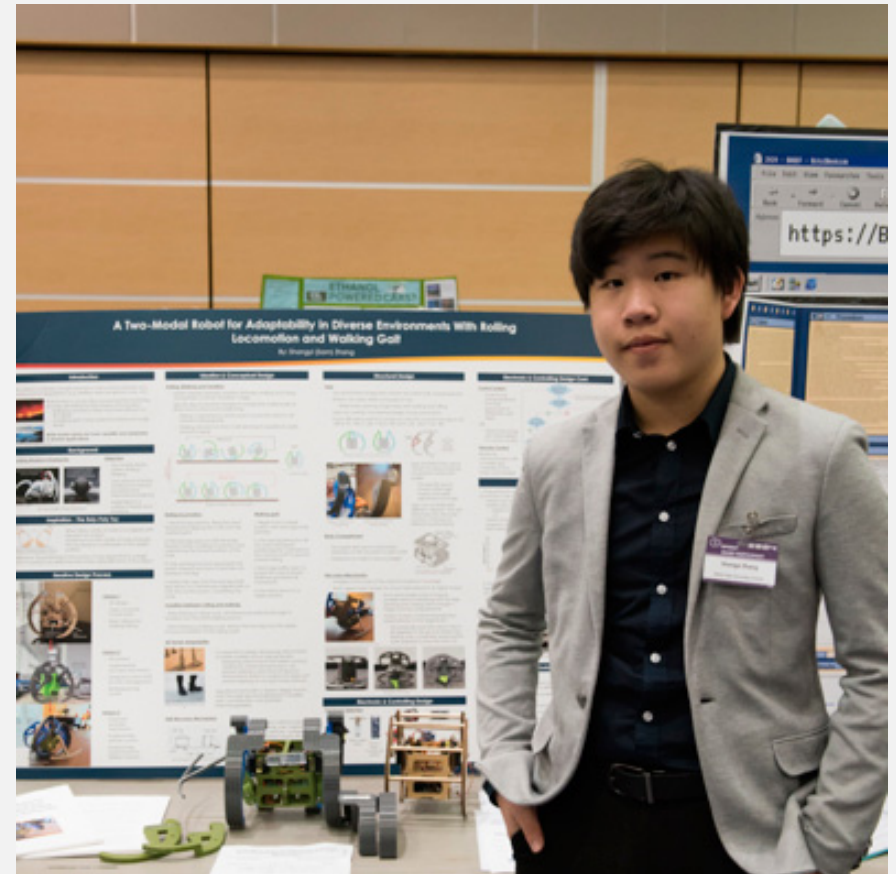
Canada-Wide Science Fair Trip Award

Shangyi Zhang

J13

A Two-Modal Robot for Adaptability in Diverse Environments With Rolling Locomotion and Walking Gait

White Oaks Secondary School
Oakville



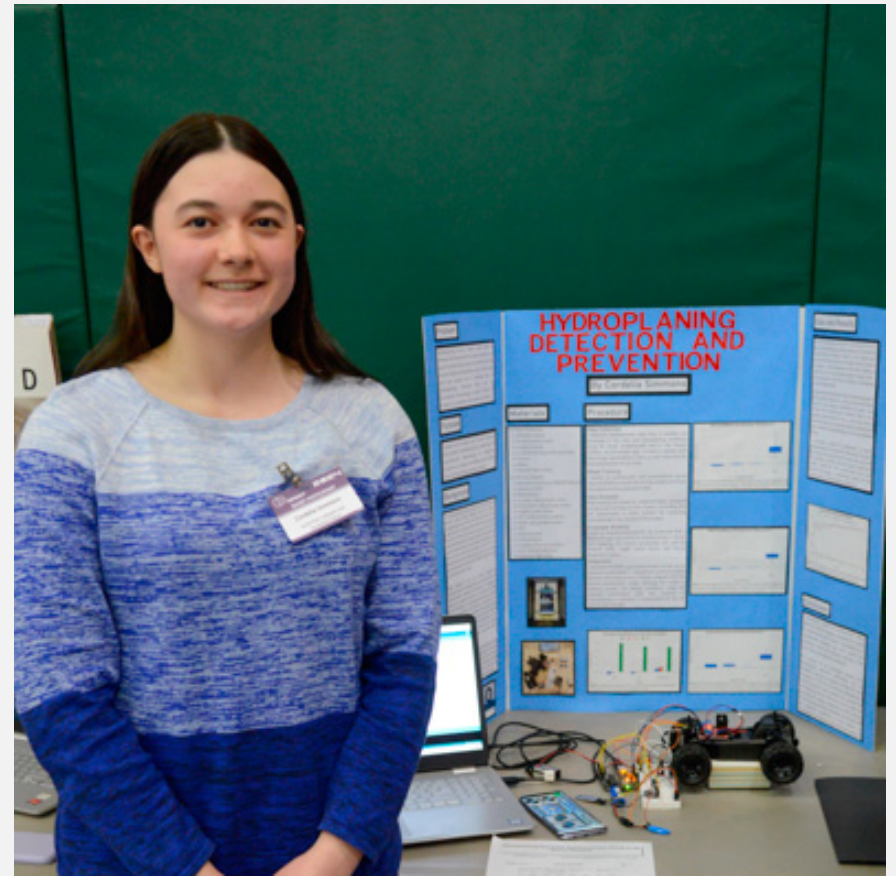
Canada-Wide Science Fair Trip Award

Cordelia Simmons

P17

Hydroplaning Detection and Prevention Using an AI
Neural Network

North Park Collegiate and Vocational School
Brantford



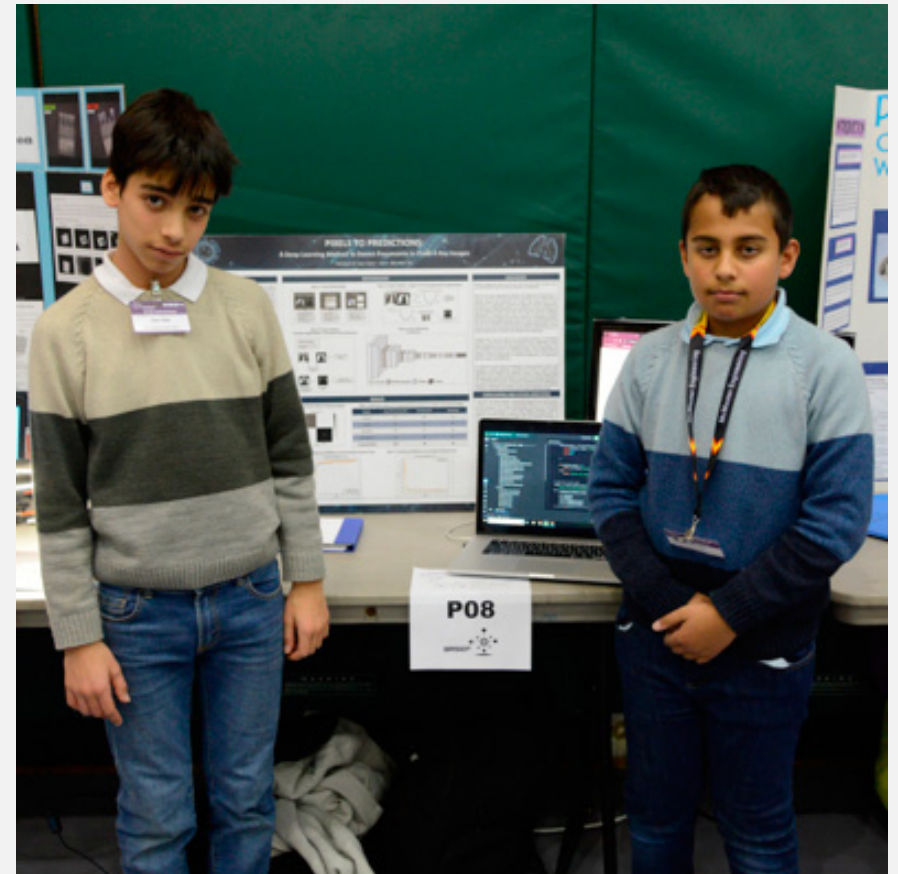
Canada-Wide Science Fair Trip Award

Daniyal Qazi & Zayn Qazi

P08

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to Detect Pneumonia in Chest X-Ray Images

W. H. Morden Public School
Oakville



Canada-Wide Science Fair Trip Award

Rakshan Saravanan

E07

The electrocorpulgraph: Can AI change auscultation?

Ancaster High
Ancaster



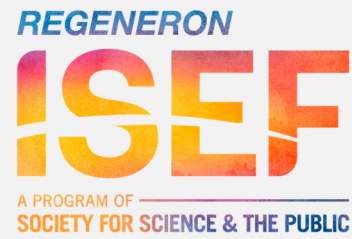
Please congratulate our Team!



Regeneron International Science & Engineering Fair Trip Awards



Sponsoring Organizations



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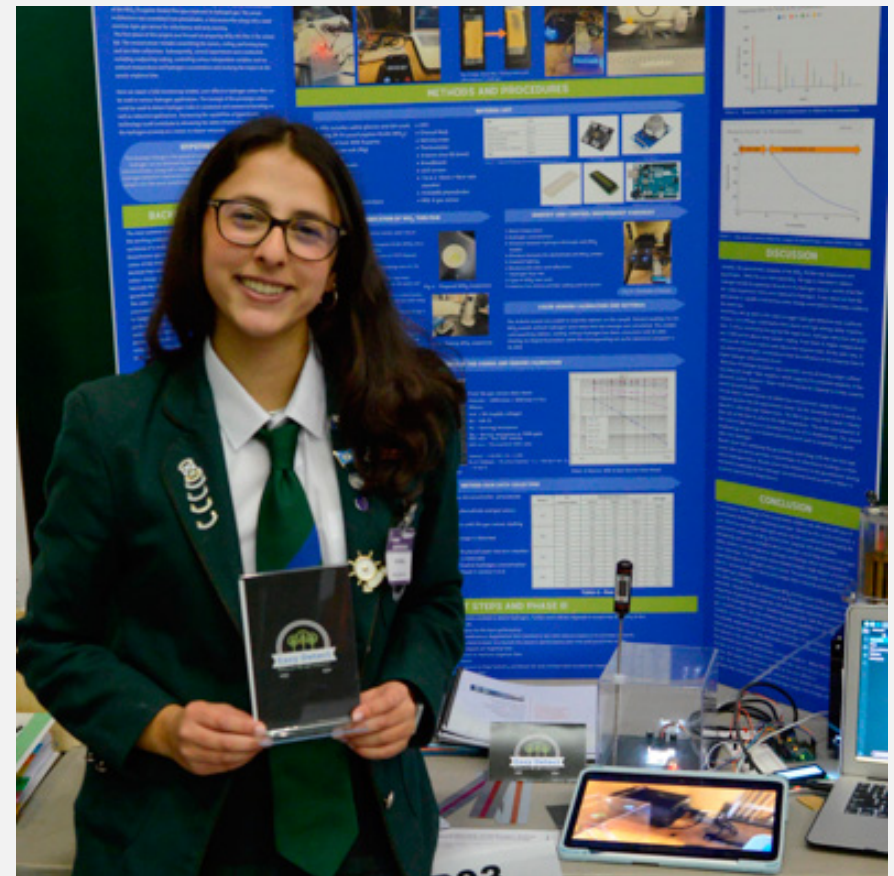
ISEF Trip Award

Alia Wahban

P03

Redefining the Landscape of Hydrogen Safety using
Innovative Gasochromic Technology

Hillfield Strathallan College
Hamilton



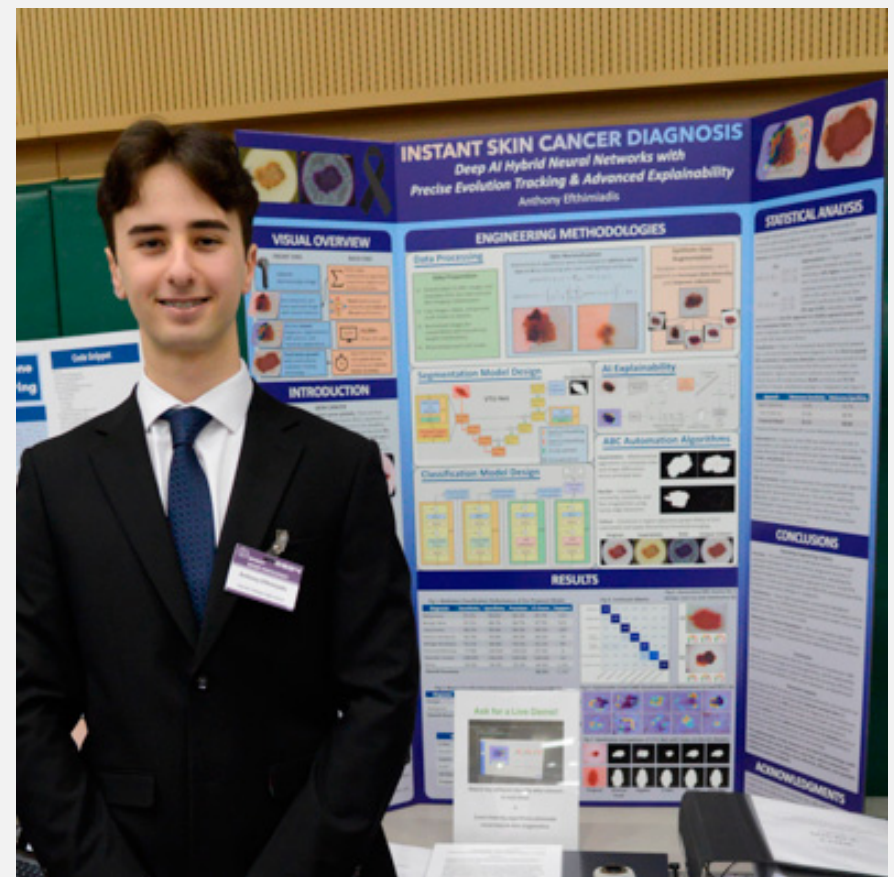
ISEF Trip Award

Anthony Efthimiadis

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Oakville Trafalgar High School
Oakville



ISEF Trip Award

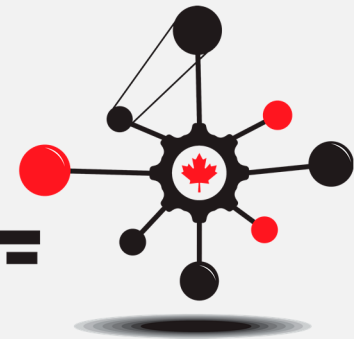
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Dundas Valley Secondary School
Dundas

BASEF



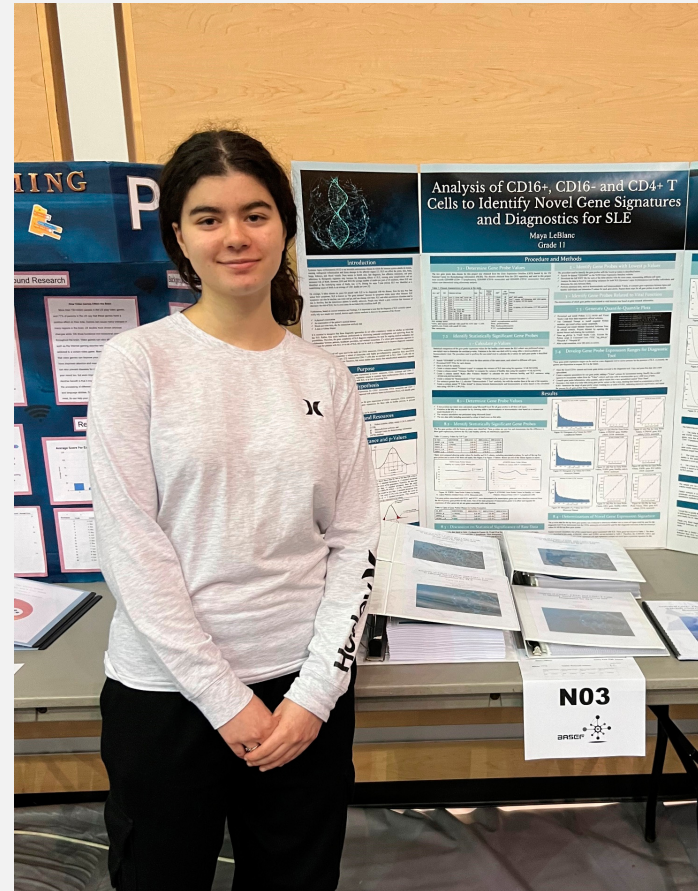
ISEF Trip Award

Maya LeBlanc

N03

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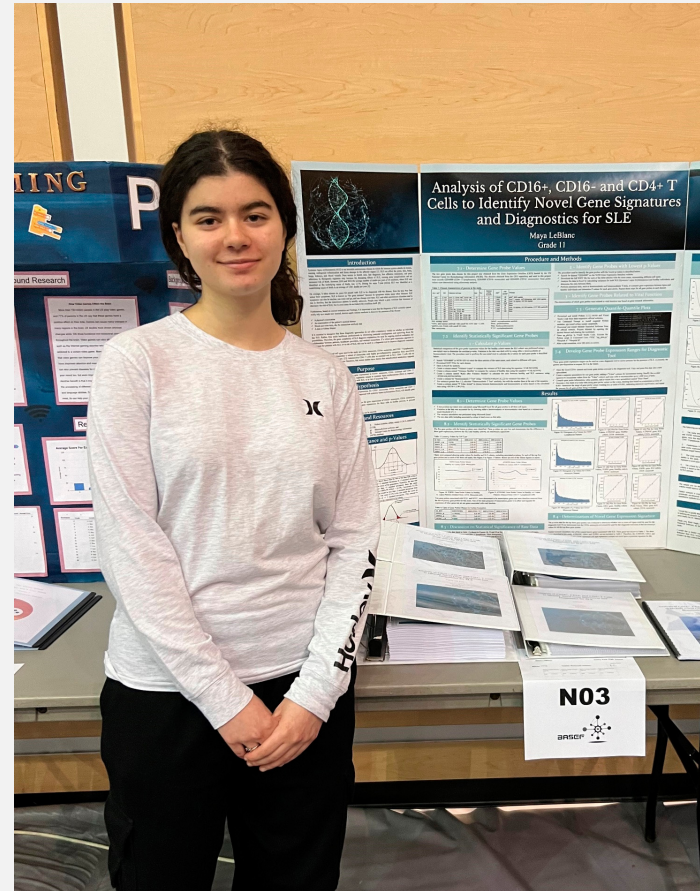
CWSF & ISEF Trip Awards

Maya LeBlanc

N03

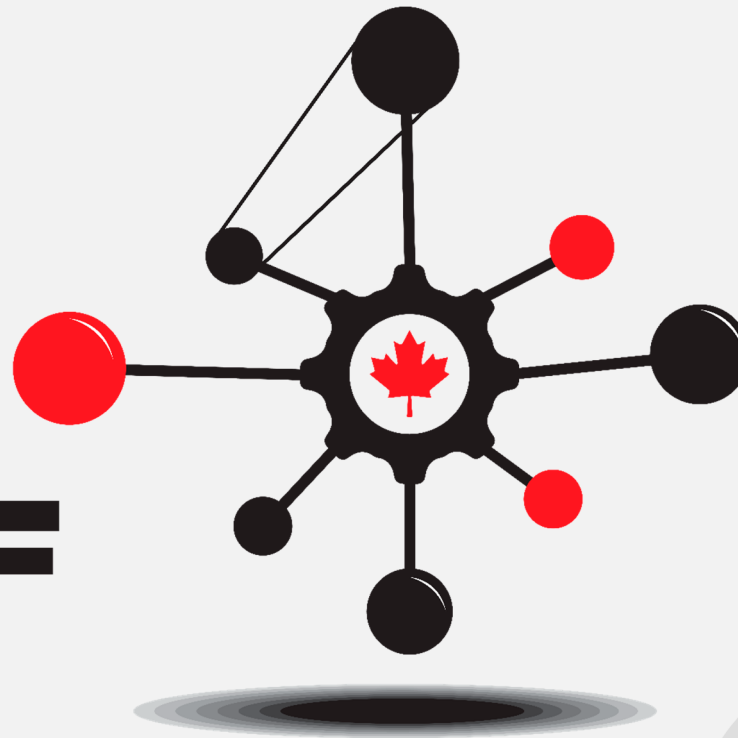
Analysis of CD16+, CD16- and CD4+ T Cells to Identify Novel Gene Signatures and Diagnostics for SLE

Abbey Park High School
Oakville

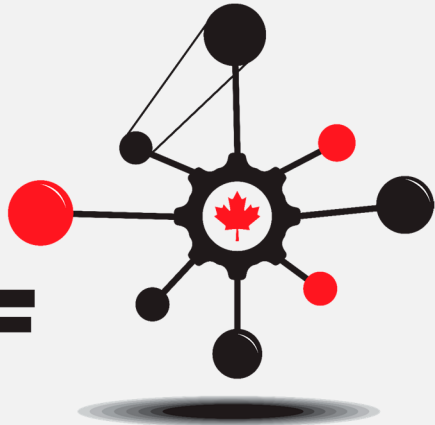


Congratulations! See you in 2025!

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