

# Professional Awards by Student

CertificateName	Title	Teacher	School
Abdullah Umar	SMART Glasses model to assist visually impaired patients	Mr. David Reynier	City High Middle School

Place	Code	Organization Name	Organization Description
ST-1	APA	American Psychological Association	Certificate
ST-1	USAF	United States Air Force	Certificate, over-the-shoulder sling pack, power bank charger, dog tag USB flash memory drive, and a dual USB car charger.
ST-1	USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14

Aditi Sharma Thinking Cap

Place	Code	Organization Name	Organization Description
ST-1	USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14

Ajay Arora Computational Modeling of Cell-Cell Connectivity in Lobular Scale Calcium Sign

James Didio Novi Senior High School

Place	Code	Organization Name	Organization Description
ST-1	USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14

Akash Rathod Investigating the role of biotic factors in host responses to rhizobia in Med

Dave Chapman Okemos High School

Place	Code	Organization Name	Organization Description
ST-H	ASA	American Statistical Association (ASA), Michigan Chapter	Certificate of recognition for the use of statistical methods in the student's science fair project

CertificateName	Title	Teacher	School
Alexander Mettler	Great Lakes Initiative (Biodegradable, Sustainable, Edible Fishing Lure)		

Place	Code	Organization Name	Organization Description
ST-1	ASU	ASU Walton Sustainability Solutions	Certificate
Schol	KU	Kettering University	\$20,000 four year scholarship to Kettering University, payable at \$5,000 per year for 4 years
ST-1	RICOH	Ricoh Corporation	Certificate as State Fair Winner, Science News Magazine - subscription, Senior winners eligible for \$50,000 competition
ST-1	USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14
ST-1	WEF	Water Environment Federation (Stockholm)	Certificate
ST-1	YALE	Yale Science & Engineering Association, Inc.	Certificate and Pewter Medallion

Alexander Wan Using Deep CNNs and Feature Matching Algorithms for Smarter Autonomous Cars

Place	Code	Organization Name	Organization Description
ST-1	USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14

Amol Kirtane Home Water Detection System  
Rebecca Brewer Troy High School

Place	Code	Organization Name	Organization Description
ST-1	USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14

Anirudh Cowlagi Maximizing Modern Solar System Production using MPPT and Algorithmic Diversion  
Andrew Collins Huron HS

Place	Code	Organization Name	Organization Description
Schol	KU	Kettering University	\$20,000 four year scholarship to Kettering University, payable at \$5,000 per year for 4 years

CertificateName	Title	Teacher	School	
ST-1 USNAVY	United States Navy			letter of congratulations; certificate of achievement; a medallion; and \$75 award gift card
ST-1 USPTO	U.S. Patent and Trademark Office			The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14
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Anushri Radhakrishnan	Painting Away the Fire			
Place Code	Organization Name			Organization Description
ST-1 USPTO	U.S. Patent and Trademark Office			The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14
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Bhuvna Murthy	Biodegradable and Cost-Effective Sanitary Napkins			
	Andrew Collins		Huron HS	
Place Code	Organization Name			Organization Description
ST-H ASA	American Statistical Association (ASA), Michigan Chapte			Certificate of recognition for the use of statistical methods in the student's science fair project
Schol KU	Kettering University			\$20,000 four year scholarship to Kettering University, payable at \$5,000 per year for 4 years
ST-1 USPTO	U.S. Patent and Trademark Office			The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14
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Brandon Davis	Reducing Carbon Emissions from a Coal Burning			
	Dr. David Allan		Saginaw Arts and Sciences Academy	
Place Code	Organization Name			Organization Description
ST-1 USPTO	U.S. Patent and Trademark Office			The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14
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Collin Wang	Quantifying the Effects of Novel Mutations in Putative T2D Regulatory Loci			
	Gillian Vonseeger		Detroit Country Day Upper	
Place Code	Organization Name			Organization Description
ST-2 ASA	American Statistical Association (ASA), Michigan Chapte			Scholarship of \$50 Award of Merit for the effective use of statistical methods in the science fair project.

CertificateName	Title	Teacher	School
Ella Johnson	Underwater Expedition		

Place	Code	Organization Name	Organization Description
ST-1	USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14

Finsam Samson	Factors Influencing Muon Flux and Lifetime		
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Place	Code	Organization Name	Organization Description
ST-1	USNAVY	United States Navy	letter of congratulations; certificate of achievement; a medallion; and \$75 award gift card

Jared Freeman	How to Resist Digestion		
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Place	Code	Organization Name	Organization Description
ST-H	ASA	American Statistical Association (ASA), Michigan Chapter	Certificate of recognition for the use of statistical methods in the student's science fair project

Josh Zhe	Traffic Management of Autonomous Vehicles at Uncontrolled Intersections		
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Place	Code	Organization Name	Organization Description
ST-1	USAF	United States Air Force	Certificate, over-the-shoulder sling pack, power bank charger, dog tag USB flash memory drive, and a dual USB car charger.

ST-1	USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14
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Joshua McIntosh	Design Synthesis and Characterization of Active Materials for Flow Cell		
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Place	Code	Organization Name	Organization Description
ST-1	USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14

CertificateName	Title	Teacher	School
Madeleine Yang	Incorporating Matrix Protein M2 in Influenza VLP to Improve Vaccine Production	Ross Arseneau	Detroit Country Day Upper
Place	Code	Organization Name	Organization Description
ST-1	INVITR	Society for In Vitro Biology	Certificate of Achievement-State Winner
ST-1	USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14
Malini Mukherji	Increasing Pumped Storage Hydropower Flow Rate Using a Non-linear Penstock		
Place	Code	Organization Name	Organization Description
ST-1	AMMETE	American Meteorological Society	Certificate of Outstanding Achievement
ST-1	AWGS	Association of Women GeoScientists	Certificate, State
ST-1	INTEL	Intel Corporation	\$200 Cash Award and an Intel Award Certificate
ST-1	USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14
Mallory Snyder	The Effects of Commercial Pesticides Upon Vanessa cardui	Matthew Miller	Saginaw Arts and Sciences Academy
Place	Code	Organization Name	Organization Description
ST-1	ASA	American Statistical Association (ASA), Michigan Chapt	Scholarship of \$200 Award of Excellence for outstanding use of statistical methods in the science fair project
Maria Cheriyan	Alternative Filtration Methods and Free Radicals in Hurricane Wastewater	Marc Drougel	Detroit Country Day Upper
Place	Code	Organization Name	Organization Description
ST-1	USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14
ST-1	WEF	Water Environment Federation (Stockholm)	Certificate

CertificateName	Title	Teacher	School
Maria Fields	Black Lives Matter: Is Chemo the Cure?	Shernaz Minwalla	University Liggett
Place Code	Organization Name	Organization Description	
ST-H ASA	American Statistical Association (ASA), Michigan Chapte	Certificate of recognition for the use of statistical methods in the student's science fair project	
Matthew Xiao	Long non-coding RNA LINC00152 plays an oncogenic role via targeting MET and ST	Karin Nelson	Northville High School
Place Code	Organization Name	Organization Description	
ST-1 USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14	
Melissa Beyrand	Hot or Not? A Study on the Scientific Formulas of Physical Attractiveness	Patricia Hanlan	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
ST-H ASA	American Statistical Association (ASA), Michigan Chapte	Certificate of recognition for the use of statistical methods in the student's science fair project	
Neha Narayan	Effectiveness of Homemade Activated Carbon Water Filter in Removing Pollutants	Joan Pence	Independant HS Student-no associated sch
Place Code	Organization Name	Organization Description	
ST-2 ASA	American Statistical Association (ASA), Michigan Chapte	Scholarship of \$50 Award of Merit for the effective use of statistical methods in the science fair project.	
ST-1 ASU	ASU Walton Sustainability Solutions	Certificate	
Schol KU	Kettering University	\$20,000 four year scholarship to Kettering University, payable at \$5,000 per year for 4 years	
ST-1 USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14	
ST-1 WEF	Water Environment Federation (Stockholm)	Certificate	

CertificateName	Title	Teacher	School
Rohit Mital	Genome-wide Analysis of Histone Modifications in Saccharomyces Cerevisiae	Allan Zhao	Indus Center for Academic Excellence -HS
Place Code	Organization Name	Organization Description	
ST-2 ASA	American Statistical Association (ASA), Michigan Chapte	Scholarship of \$50 Award of Merit for the effective use of statistical methods in the science fair project.	
Sahil Suneja	An Analysis of Weakly Nonlinear Systems		
Place Code	Organization Name	Organization Description	
ST-1 MUALPH	Mu Alpha Theta	Certificate	
Sai Anantapantula	Protocol Identification Methodologies: A Comparative Study		
Place Code	Organization Name	Organization Description	
ST-H ASA	American Statistical Association (ASA), Michigan Chapte	Certificate of recognition for the use of statistical methods in the student's science fair project	
ST-1 USAF	United States Air Force	Certificate, over-the-shoulder sling pack, power bank charger, dog tag USB flash memory drive, and a dual USB car charger.	
Salena Prakah-Asante	Effect of Varying Solid Fuels on Indoor Air Pollution and Thermal Efficiency	Stephanie Kokoszka	Cranbrook Kingswood Upper School
Place Code	Organization Name	Organization Description	
ST-H ASA	American Statistical Association (ASA), Michigan Chapte	Certificate of recognition for the use of statistical methods in the student's science fair project	
Samuel Maher	Calculating Nephelometric Turbidity Units of Increased Suspended Solids in	Mark Hellebuyck	Arthur Hill High School
Place Code	Organization Name	Organization Description	
ST-1 AMMETE	American Meteorological Society	Certificate of Outstanding Achievement	
ST-H ASA	American Statistical Association (ASA), Michigan Chapte	Certificate of recognition for the use of statistical methods in the student's science fair project	

CertificateName	Title	Teacher	School	
ST-1 NOAA	United States Department of Commerce Oceans and At			Certificate, Medallion, Letter of Congratulations
ST-1 WEF	Water Environment Federation (Stockholm)			Certificate
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Sarah Syeda		Using Nanotechnology in an Environmentally Safe Method to Remove Oil Spills		
	Mr. Matthew Miller	Saginaw Arts and Sciences Academy		
Place Code	Organization Name	Organization Description		
ST-1 USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14		
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Shivan Prasad		Econometric Model of USGDP through Artificial Neural Networks		
Place Code	Organization Name	Organization Description		
ST-2 ASA	American Statistical Association (ASA), Michigan Chapte	Scholarship of \$50 Award of Merit for the effective use of statistical methods in the science fair project.		
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Sujit Lakshmikanth		Mars Exploration Zone Map Design for the Manned Mission to Mars		
Place Code	Organization Name	Organization Description		
ST-1 USAF	United States Air Force	Certificate, over-the-shoulder sling pack, power bank charger, dog tag USB flash memory drive, and a dual USB car charger.		
ST-1 USMETR	US Metric Association Award	Certificate		
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Tony Pan		LightScribe Graphene Supercapacitor		
Place Code	Organization Name	Organization Description		
ST-1 NASA	NASA Earth System Science	Certificate		
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Vihaar Nandigala		Impacts of Catastrophes on Ecosystems and Survivability of Species		
Place Code	Organization Name	Organization Description		



CertificateName	Title	Teacher	School
ST-H ASA	American Statistical Association (ASA), Michigan Chapt		Certificate of recognition for the use of statistical methods in the student's science fair project

Zaid Haque  
 The Effects of Boron Compounds on Amyloid-beta 42 Plaque Aggregation: A New Th  
 Matthew Miller  
 Saginaw Arts and Sciences Academy

Place	Code	Organization Name	Organization Description
ST-2	ASA	American Statistical Association (ASA), Michigan Chapt	Scholarship of \$50 Award of Merit for the effective use of statistical methods in the science fair project.
ST-1	USPTO	U.S. Patent and Trademark Office	The USPTO recognizes the project as having intellectual property and will be recognized at 'All About STEM' in Detroit on Saturday, April 14