## MSEF 2021 Category Award Winners

	Division Name	Grade	School Name	Teacher Name			
	Categpry	Title					
Division S							
0	Margaret Yang	11	Cranbrook Kingswood Upper School	Stephanie Kokoszka			
	Energy	_	neering Multi-Enzyme Whole-Cell luction	Biocatalysts for Biofuel			
0	Michelle Hua	10	Cranbrook Kingswood Upper School	Allwyn Cole			
	Robotics & Intelligent Machines		ed Silhouette Convolutional Neur egnition	al Network for Human Action			
1	Diya Ramesh	10	International Academy	Renee Kiriazis			
	Computational Biology & Bioinformatics		um-Based mRNA-Targeting Probe nostic Tool	s in Lung Cancer - An Early			
1	Nicholas Kalkanis	11	Detroit Country Day Upper	Duha Fahmy			
	Biomedical & Health Sciences	Evalı Tum	uation of Raman Spectroscopy Pro ors	bbe in the Diagnosis of Brain			
2	Christopher Bernitsas	11	Detroit Country Day Upper	Patricia Hanlan			
	Energy		ards Development of a Fish-Symb rester	iotic Hydrokinetic Energy			
2	Audrey Gunawan	12	West Bloomfield High School	Nic Fraylick			
	Translational Medical Science	_	Developing an Opioid Painkiller Alternative using the Epigenetic Correlation b				
2	Angela Xu with Ethan Chen and Jonathan Chen	11	Troy High School	Rebecca Brewer			
	Biomedical Engineering	Non	-contact Continuous Cardiovascula	ar Monitoring System			
2	Maria Cheriyan	12	Detroit Country Day Upper	Karen Lamb			
	Systems Software	Tow	ards Affective Gaming for Post-ICU	J Lung Rehabilitation			
3	Adam Sun	12	Detroit Country Day Upper	Rami Baroodi			
	Robotics & Intelligent Machines		ient Monocular Depth Estimation vorks	with Fully-Convolutional Neural			

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	Division Name	Grade	School Name	Teacher Name
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3	Aaryan Chandna with Mick Gordinier	11	West Bloomfield High School	Nic Fraylick
	Systems Software	Strat	egic Analysis of Streak Shooting in	the NBA
3	Evelyn Wang with Anjali Debrah Biomedical Engineering	9 Smai	MSEF-Midland HH Dow HS	Diane White
	Biomedical Engineering	311141		age serve
3	Sneha Dinda	12	Troy High School	Rebecca Brewer
	Materials Science	Mec	hanochemical synthesis of nanocr	ystalline hydroxyapatite
3	Ali Alomari	12	Detroit Country Day Upper	John Doughert
	Behavioral & Social Sciences	Optimizing Pandemic Related Shutdowns		
3	James Wolf	12	MSEF-Saginaw Arts and Sciences	John Barnes
	Engineering Mechanics		structing a 3D Printer for the Fused rogels	Deposition Modeling of Solid
4	Mikul Saravanan	10	Cranbrook Kingswood Upper School	Stephanie Kokoszka
	Robotics & Intelligent Machines	Smai	rt robot to purify, humidify and dis	sinfect the air
4	Gary Xu	11	Troy High School	Rebecca Brewer
	Physics & Astronomy	Prop	erties of Stellar Binaries	
4	Pooja Kannappan	11	Bloomfield Hills High School	Noelle Collis
	Translational Medical Science		stigating Differential Gene Regulat escents	ion in the PBMC of Obese
4	Kristine Ma with Raha Zaman	11	Detroit Country Day Upper	John Dougherty
	Behavioral & Social Sciences	Iden: Sacc	tifying a Possible Alternative Meth ades	od to Diagnose ADHD through
4	Akshara Karthik with Arya Goel	11	International Academy	Renee Kiriazis
	Cellular & Molecular Biology		tifying How To Directly Reprogram oblast Cells	Other Cell Types Into
4	Vikram Goddla	9	Detroit Country Day Upper	Karen Lamb
	Computational Biology & Bioinformatics		mprehensive AI solution for larges nopathy	cale screening of Diabetic

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Division

Name
Grade School Name
Teacher Name

Title

4 Akshith Pulgam 11 Pioneer HS Steve Armstron
Biomedical Engineering Can a Glove Stop Heart Attacks?

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