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Final Judging Results

Award Legend

Plaque Winners = 1, 2, ...
 Medalists = m
 Winners = w

Applied Technology Awards

[SchTown] [School] [Teacher]
 [Proj#] [FCat] [Project Title]

Middle School

5521 P8 Alerting Drivers That a Child was Forgotten in a Vehicle With a Circuit Sequence Alert System (CSAS)

Award 1 **Student(s)** Andrew Pagnotta **Grade** 8 **Town** Bozrah

- * Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$300 and Plaque, Medallion
- * U.S. Air Force --- Certificate & \$25 gift card from CSEF
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Society of Women Engineers - Hartford Section --- Scientific Calculator

2517 L8 The Latch

Award 2 **Student(s)** Neev Makin **Grade** 8 **Town** Hamden

- * PepsiCo Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- 2nd Place Middle School - \$200 and Plaque, Medallion
- * Computer Science Awards --- 3rd Place Middle School- \$100, Plaque
- * Collins Aerospace Engineering Awards --- 3rd Place- Engineering MS \$100 & Plaque
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

5507 P8 2009 MacBook Restoration

Award 3 **Student(s)** Andrei Balas **Grade** 8 **Town** Cheshire

- * Stanley Black & Decker Applied Technology Awards --- 3rd Place Middle School - \$100 and Plaque, Medallion
- * Computer Science Awards --- Middle School Finalist - Medallion
- * Wisner Chairman's Award --- \$500 cash & Plaque MS

2501 L8 Adjusting to Our Modernized World with Smart Farms

Award m **Student(s)** Michael Guiliano **Grade** 8 **Town** Canton

- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion



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Quinnipiac University

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5525 P8 Pellet-"O"-Trap: Capturing Plastic Pellets Through a Multi-Filter System & Analyzing Their Progression Using Binary Image Processing

Award m **Student(s)** Sia Reddy **Grade** 8 **Town** Avon

- * Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences 8th Grade Ind.- \$300 & Plaque
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200 and Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

5011 P7 Coding an Affordable Goat Identification System for All Farmers

Award m **Student(s)** Avery Fowler **Grade** 7 **Town** Cheshire

- * Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences 7th Grade Ind. - \$200 & Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion
- * National Center for Inquiry Learning --- Danielle & Maggie Award for Imagination - MS \$100
- * Dreams Unlimited Award --- \$100 Cash Award + Certificate to each student
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

5505 P8 Design and Testing of an Integrated 360 Degree Pi Camera System for Deep Well Rescue Mission

Award m **Student(s)** Sandhya Sudarsanam **Grade** 8 **Town** Danbury

- * Lockheed Martin Physical Sciences Awards --- 4th Place - Physical Sciences 8th Grade Ind. - Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place - Middle School- \$200 / Plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 4th Place Middle School - Plaque, Medallion
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Computer Science Awards --- 1st Place Middle School - \$300, Plaque
- * Collins Aerospace Engineering Awards --- 2nd Place- Engineering MS- \$200 & Plaque
- * Raytheon Corporation Awards --- \$500, Plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * Jon Chapis Memorial Award --- John Chapis Spirit of Innovation Award - MS \$100
- * Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS



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4003	PT	School Bus Approach Alert System
Award	m	Student(s) Leonardo Kulon Sanaka Dash
		Grade 7 Town Wilton
		Grade 7 Town Wilton

- * Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences MS Team- \$100 each & Plaque
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Raytheon Corporation Awards --- \$500, Plaque
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

High School

6031	PS	Theoretical Modelling and Parameterization of a Novel-Actuator-Based Transtibial Pediatric Prosthetic
Award	1	Student(s) Aditi Bhattamishra
		Grade 10 Town Orange

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * IEEE, Connecticut Section --- \$250 Honors Award -Senior
- * Wisner Chairman's Award --- \$500 cash & Plaque HS
- * Otero Family Award --- The Otero Family Award; \$250 cash

6030	PS	How Raspberry Pi Microcomputers and Computer Vision Artificial Intelligence Can Be Utilized to Provide Aid to the Visually Impaired Community
Award	2	Student(s) Siddhant Bhardwaj
		Grade 11 Town Cheshire

- * Stanley Black & Decker Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Zepke Awards --- \$125 - For the Best Use of Electronic Circuitry- Senior High
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

6015	PS	Creating a Systematic ESG (Environmental Social Governance) Scoring System using Social Network Analysis and Machine Learning to Influence Company Practices to be More Sustainable
Award	3	Student(s) Aarav Patel
		Grade 10 Town Orange

- * Stanley Black & Decker Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- * Kathleen & David Smith Awards --- Kathleen & David Smith Award for Innovative Concept - \$100

6057	PS	An Inexpensive, Simple and Effective Application of Off the Grid Solar Disinfection For Potable Water
Award	m	Student(s) Allison Greenberg
		Grade 12 Town Fairfield

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion



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6048 PS A Drunk-Driving Alerting Device using an HX711 Weight Sensor and MQ-3 Alcohol sensor

Award m **Student(s)** Sagarika Srinivasan **Grade** 11 **Town** Cheshire

* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

6061 PS Optimization of the Sleep Cycle by Activation of the Parasympathetic Nervous System Using Low-frequency Vibrations and Heart Rate Variability Analysis.

Award m **Student(s)** Ryan Kulsakdinun **Grade** 11 **Town** Armonk

* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
 * Lunch with a Patent Attorney --- Lunch with a Patent Attorney

3025 LS Rapid, Visual Detection of Benadryl Cocktails via Competitive, Amine-Responsive Fluorophores

Award m **Student(s)** Angelina Fogarty **Grade** 11 **Town** old greenwich

* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
 * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 * Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High - \$300 & Plaque
 * Connecticut Science Supervisors Association --- \$125 for a high school project

6090 PS The Optimization of a Ground Collision Avoidance System and Application to Inhibit Controlled Flight Into Terrain Accidents For Single Engine Aircraft

Award m **Student(s)** Mason Beaudette **Grade** 12 **Town** Orange

* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
 * Computer Science Awards --- Senior High Finalist - Medallion
 * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
 * American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate

3520 LST Development of an Autonomous WatchOS Application that uses HRV and Vibrational Pulses to Reduce Stress

Award m **Student(s)** Sheehan Munim **Grade** 11 **Town** Orange
 Allen Liu **Grade** 11 **Town** Woodbridge

* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion



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6081 PS Developing a Machine Learning Algorithm to Accurately Predict Geomagnetic Storms
 Award m Student(s) Iris Yan Grade 10 Town Woodbridge

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award