Connecticut Science & Engineering Fair
Quinnipiac University
March 11 - 16, 2019

These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.

Final Judging Results

Computer Science Awards

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

Middle School

5553 | **P8** | Tracking Plastic Bottles on Blockchain - Better Environmental Policies and Accountability through Economic and Accurate, Real-Time Management

Award 1   **Student(s) C. Brooks Harris**   **Grade** 8   **Town** Greenwich

* Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy and Invitation Compete in Broadcom MASTERS
* People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- $150 from ATOMIC, and Trophy, $300 from People's United Bank
* Computer Science Awards --- 1st Place Middle School - $300, Trophy and Medallion
* Society of Women Engineers - Hartford Section --- Scientific Calculator

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5519 | **P8** | Integrating Intelligence Systems into Humanoid Robot Using Raspberry Pi

Award 2   **Student(s) Nicholas Lee**   **Grade** 8   **Town** Trumbull

* Applied Technology Awards --- Middle School Finalist - Medallion
* Computer Science Awards --- 2nd Place Middle School - $200, Trophy and Medallion

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5531 | **P8** | Vision Assist 2.0

Award 3   **Student(s) Siddhant Bhardwaj**   **Grade** 8   **Town** Cheshire

* Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy
* Applied Technology Awards --- Middle School Finalist - Medallion
* Computer Science Awards --- 3rd Place Middle School- $100, Trophy, Medallion

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5517 | **P8** | Testing Different Nano-Particle Inks as Electrodes in a Sunlight-Seeking. Printed, Bio-Photovoltaic System

Award m   **Student(s) Maximilien Coisman**   **Grade** 8   **Town** Danbury

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
* Computer Science Awards --- Middle School Finalist - Medallion
* Alternative/Renewable Energy Awards --- 2nd Place Middle School - $200 Cash and Trophy
* Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
* National Oceanic and Atmospheric Administration --- Certificate and $25 gift card given by CSEF
* MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, $100 cash award

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5006 | **P7** | LEGO MINDSTORMS EV3 - Can Accuracy Be Improved?

Award m   **Student(s) Matthew Drago**   **Grade** 7   **Town** Pawcatuck

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
* Applied Technology Awards --- Middle School Finalist - Medallion
* Computer Science Awards --- Middle School Finalist - Medallion

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Award Legend

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

5514	P8	Medibox

Award **m** **Student(s)** Varun Vadhera **Grade** 8 **Town** Wilton

* Applied Technology Awards --- 3rd Place Middle School - $100 and Trophy, Medallion
* Computer Science Awards --- Middle School Finalist - Medallion

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High School

6052	PS	A Novel Activation Function for a Convolutional Neural Network Implemented Without Machine Learning Libraries

Award **1** **Student(s)** Aresh Pourkavoos **Grade** 10 **Town** Avon

* People's United Bank Mathematics Awards - with ATOMIC --- 1st Place High School- $150 from ATOMIC, Plaque, $500 from People's United Bank
* Computer Science Awards --- 1st Place High School - $400, Plaque, Medallion
* Intel Excellence in Computer Science Award --- $200 & certificate
* Mu Alpha Theta --- Certificate, $25 gift card given by CSEF
* University of New Haven High School Awards in Engineering & Science --- $100 For High School Project in Computer Science
* University of New Haven High School Awards in Engineering & Science --- $100 For High School Project in Mathematics
* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

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3028	LS	Creation and Development of a Neural Network to Diagnose Alzheimer's Disease and Dementia

Award **2** **Student(s)** Jamison Meindl **Grade** 11 **Town** Riverside

* Computer Science Awards --- 2nd Place High School - $300, Plaque, Medallion
* Intel Excellence in Computer Science Award --- $200 & certificate
* Mu Alpha Theta --- Certificate, $25 gift card given by CSEF

6068	PS	Measuring Convexeses of Electoral Districts Using Graph Theory to Flag Potentially Gerrymandered Districts

Award **3** **Student(s)** Sam Florin **Grade** 10 **Town** Greenwich

* People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
* Computer Science Awards --- 3rd Place High School- $200, Plaque, Medallion
* Intel Excellence in Computer Science Award --- $200 & certificate

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6004	PS	Diagnosing Parkinson's Disease with Artificial Intelligence

Award **m** **Student(s)** Akshar Agarwal **Grade** 12 **Town** Hamden

* CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
* Computer Science Awards --- Senior High Finalist - Medallion
* IEEE, Connecticut Section --- $100 Honorable Mention
* Biophysical Society --- Biophysics Award- $100

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Final Judging Results

Computer Science Awards

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Medalists = m
Winners = w

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

| 6048 | PS | Intuitive Control Algorithm Development of 4WIS/4WID Using A SpaceMouse |

Award m   **Student(s)** Taewook Kim   **Grade** 11   **Town** Kent

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
* Computer Science Awards --- Senior High Finalist - Medallion
* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
* United Technologies Corporation Awards --- $500 in UTC Common Stock, Plaque, Backpack, and Annual Report
* IEEE, Connecticut Section --- $250 Honors Award -Senior
* Robotics And Beyond --- MS- For Excellence in Engineering Design- $200 for Robotics And Beyond STEM Design Academy in July
* Barker Mohandas Awards for Transportation Research --- $200 Cash & Plaque for Excellence in Transportation Related Research- High School

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| 6005 | PS | Real-Time Sinkhole detection using Civil Engineering techniques, the Internet of Things (IoT), and Artificial Intelligence |

Award m   **Student(s)** Sophia Wang   **Grade** 11   **Town** Woodbridge

* Applied Technology Awards --- 1st Place High School - $500 and Plaque, Medallion
* Computer Science Awards --- Senior High Finalist - Medallion
* United Technologies Corporation Awards --- $500 in UTC Common Stock, Plaque, Backpack, and Annual Report
* Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- $25 gift card given by CSEF
* Society of Women Engineers - Hartford Section --- Scientific Calculator
* Geology/Historic Project of Merit Award --- $50 - Earth Science - Field work with Geologic or historic value
* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4

| 6024 | PS | Open-source, In-field Android and iOS Detection and Mapping of Waterborne Diseases via Time-Based Spectroscopic Sensing and RGB Luminance with a New 3D Printable Optical Interface |

Award m   **Student(s)** Nicholas Liu   **Grade** 12   **Town** Greenwich

* Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
* Applied Technology Awards --- Senior High Finalist - Medallion
* Computer Science Awards --- Senior High Finalist - Medallion

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| 6083 | PS | Computational Fluid Dynamics Study of Turbulence |

Award m   **Student(s)** Bryan Ingwersen   **Grade** 12   **Town** Sandy Hook

* Computer Science Awards --- Senior High Finalist - Medallion
* United Technologies Corporation Awards --- $500 in UTC Common Stock, Plaque, Backpack, and Annual Report
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, $75.00 gift certificate given by ONR
* John S. Kendall Memorial Awards --- $500 John S. Kendall Award for Excellence In Mechanical Engineering - High School
* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

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