



Connecticut Science & Engineering Fair

Quinnipiac University

March 8 - 20, 2021

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

Final Judging Results

Award Legend

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

Raytheon Awards

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

6008 PS Using Fractal Metamaterials with Non-Integer Dimensionality to Manipulate the Propagation of Acoustic Waves

Award Student(s) **Natalie Shell** Grade 11 Town **Greenwich**

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Raytheon Corporation Awards --- \$500, Plaque

6010 PS Two Speed Mechanical BMX Race Gearbox

Award Student(s) **Jacob Hatt** Grade 10 Town **Salem**

- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Raytheon Corporation Awards --- \$500, Plaque
- * Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a High School student, \$150 cash

6034 PS Designing a Data-collecting Robotic System to Negate the Effects of Eutrophication

Award Student(s) **Ryan Kulsakdinun** Grade 10 Town **Armonk**

- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Raytheon Corporation Awards --- \$500, Plaque
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

6044 PS Towards Clean Energy via Radioactivity: An Investigation of the Dissipation of Electrons in an Ultra High Vacuum Environment

Award Student(s) **Luke Apostolides** Grade 11 Town **Greenwich**

- * Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
- * Future Sustainability Awards --- 3rd Place High School - \$200 Cash and Plaque
- * Raytheon Corporation Awards --- \$500, Plaque
- * U.S. Metric Association --- Certificate & \$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
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

6063 PS Development of an autonomously driving robot which can remotely scan body temperature to screen for COVID-19

Award Student(s) **Ryan Kim** Grade 10 Town **Wallingford**

- * Collins Aerospace Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- * Raytheon Corporation Awards --- \$500, Plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * IEEE, Connecticut Section --- \$250 Honors Award -Senior



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6076 PS Developing Tetherless Motion Tracking System for Wandering Insects Using an Omni-directional Servosphere Robot

Award Student(s) **Nicholas Lee** Grade 10 Town Trumbull

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Mathematics Awards - with ATOMIC --- 2nd Place High School- \$300 and Plaque
- * Computer Science Awards --- 2nd Place High School - \$300, Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Raytheon Corporation Awards --- \$500, Plaque
- * IEEE, Connecticut Section --- \$100 Honorable Mention

6078 PS Development of a Novel Classification Model to Determine Vegetation Habitability of Exoplanet Atmospheres Via Random Forest Machine Learning Algorithms.

Award Student(s) **Joseph Gottlieb** Grade 12 Town Stratford

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 5th Place High School - Plaque, Medallion
- * Computer Science Awards --- Senior High Finalist - Medallion
- * Raytheon Corporation Awards --- \$500, Plaque

6087 PS The Hat and the Mouse: A Practical Hands-Free Method to Control a Personal Computer

Award Student(s) **Payton Noe** Grade 10 Town East Lyme

- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque
- * Computer Science Awards --- 1st Place High School - \$400, Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Raytheon Corporation Awards --- \$500, Plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * Dreams Unlimited Award --- \$100 Cash Award + Certificate to each student