



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 10 - 14, 2015

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

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

## Xerox Computer Science Awards

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

### Middle School

**Bozrah** Fields Memorial School Evelyn Brown

5507 P8 Music Metrics and Fractals: Analyzing Different Genres of Digitized Music to Identify Input Metrics for Programming Fractal Representations of the Music with Mathematica

Award 1 Student(s) Genevieve Buckridge Grade 8 Town Bozrah

- Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy, invite to compete 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
- Xerox Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion
- Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate
- Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque

**Orange** Southern CT Hebrew Academy Karen Howell

5512 P8 Design, build and program a robot using an Arduino Mega 2560 R3 through an Android app to cheer up or relax children at a hospital

Award 2 Student(s) Ben Bruder Grade 8 Town New Haven

- Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- Xerox Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion
- UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering

**Avon** Talcott Mountain Academy Alyson Tockstein

5522 P8 Thermodynamics of the Stirling Cycle: Testing the Effects of the Relative Temperature Difference on Stirling Engine Output

Award 3 Student(s) Varun Aggarwal Grade 8 Town South Glastonbury

- Xerox Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion

**Bethany** Amity Reg Middle School, Bethany Campus Mr. Kevin Berean

4033 PT BabyBot: Creating a Robot to Soothe a Crying Infant

Award m Student(s) Neha Sudhir Grade 8 Town Woodbridge  
 Rosie Du Grade 8 Town New Haven  
 Allison Fischman Grade 8 Town Woodbridge

- Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award
- Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences



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**Bethany** Amity Reg Middle School, Bethany Campus Kevin Berean

4017 PT The Sensing Cane

**Award** m **Student(s)** Kate Yuan **Grade 8** **Town** Woodbridge  
 Catalina Betancur **Grade 8** **Town** Woodbridge

- Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team-trophy, invite to compete Broadcom MASTERS
- Barnes Aerospace Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
- ISA - International Society for Automation --- 2nd - \$75 award

**Bethel** St. Mary School Mrs. McDonald

5043 P7 A Matter of Facts: Designing a Math App to Help Kids Learn Their Math Facts

**Award** m **Student(s)** Kevin Legnard **Grade 7** **Town** Bethel

- People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place Middle School- \$100 from ATOMIC, and Trophy, \$200 from People's United Bank
- Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award



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### High School

**Woodbridge** Amity Regional High School Deborah Day

6509 PST Echocardiogram-Based Wireless Left Ventricular Assist Device (LVAD) with Mobile Application Monitoring and Control

Award **1** Student(s) **Daniel Giebisch** Grade 12 Town Woodbridge  
**Noah Gallant** Grade 12 Town Bethany

- Connecticut Science & Engineering Fair Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- Xerox Computer Science Awards --- 1st Place High School - \$400, Plaque, Medallion
- Intel Excellence in Computer Science Award --- \$200 & certificate
- IEEE, Connecticut Section --- \$100 Honorable Mention
- University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Computer Science

**Bristol** St. Paul Catholic High School Mr Alberti

6076 PS Novel Approches of Making Human to Robot Interaction Possible for the Handicapped.

Award **2** Student(s) **Kamila Krawczuk** Grade 9 Town New Britain

- Xerox Computer Science Awards --- 2nd Place High School - \$300, Plaque, Medallion
- Intel Excellence in Computer Science Award --- \$200 & certificate
- Leask/Francoeur Family Awards --- Award for excellence and innovation in electrical engineering or computer science - \$200 cash

**Putnam** Putnam Science Academy Serdar Haytiyev

6071 PS Designing a Braille E-Book For the Visually Impaired and Blind People

Award **3** Student(s) **Abdulkadir Yilmaz** Grade 11 Town Putnam

- Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- Xerox Computer Science Awards --- 3rd Place High School- \$200, Plaque, Medallion
- Connecticut Association for the Gifted --- Leonardo Davinci 9-12 Grade \$50 Gift Certificate
- ISA - International Society for Automation --- 3rd - \$50 award
- Leask/Francoeur Family Awards --- Award for excellence and innovation in electrical engineering or computer science - \$200 cash
- Education Connection- Center for 21st Century Skills Awards --- \$100 For innovative use of technology to advance science or engineering
- Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

**Avon** Avon High School Galuska

6025 PS Program your Diet

Award **m** Student(s) **Nivedha Natchiappan** Grade 10 Town Avon

- Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award



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**Glastonbury** Glastonbury High School Ms. Pintavalle  
 6073 PS Chef NAO: The Humanoid Cooking Robot  
**Award** m **Student(s)** Kiele Sacco **Grade** 12 **Town** Glastonbury

- Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award

**Ridgefield** Ridgefield High School Patrick Hughes  
 6047 PS The Effect of Different Checkerboard Sizes on Steady State Visually Evoked Potentials  
**Award** m **Student(s)** Randy Deng **Grade** 12 **Town** Ridgefield

- Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award
- Connecticut Association of Physics Teachers --- \$100 Senior project
- IEEE, Connecticut Section --- \$100 Honorable Mention

**Salisbury** Salisbury School Tobias Ayer  
 6014 PS The physics of the space elevator construction.  
**Award** m **Student(s)** Kyungmin Lee **Grade** 11 **Town** Salisbury

- People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank
- Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award
- Barker Mohandas Award for Transportation Research --- \$200 Cash & Plaque for Excellence in Transportation Related Research- High School

**Woodbridge** Amity Regional High School Deborah Day  
 6082 PS Creating a Semantic Search Engine with Voice Integration  
**Award** m **Student(s)** David Wang **Grade** 11 **Town** Bethany

- Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award
- U.S. Coast Guard Research and Development Center --- Summer internship to conduct research aboard ship or at a USCG base + \$50 Amazon Gift Card given by CSEF.