



things like submarines. Chen created a software testing tool that she hopes will improve how systems are tested, thereby making our world a safer place.

***Matthew Edwards, Blacksburg High School (VA)***

Voting is a civic responsibility, but often federal elections see just over half of eligible citizens vote. Edwards wanted to figure out why more people don't vote. His project addressed voter turnout and the right to vote. Edwards used computer science to develop a new strategy for voting online. He hopes that using technology in local, state and national elections will encourage and enable all citizens to vote and provide solutions to other social problems.

***Karthik Rao, Briarcliff High School (NY)***

Rao's winning project focused on fuel efficiency for the airline industry. Using old and new technologies, such as Global Positioning System (GPS), to create more efficient flight paths for airplanes, Rao showed that decreased fuel usage could translate into big savings economically and environmentally.

***Cherry Zou, Poolesville High School (MD)***

There are an estimated 556 million victims every year and 18 victims every second of cybercrimes. Zou chose to focus her project on cyberbullying and cybercrimes. She read terrifying stories of people taking their own lives after being cyberbullied via fake social media accounts. Her project aimed to use an author's writing style to correctly identify anonymous social media posts. Zou wants users of social media to be held accountable for their harmful actions.

"We are delighted to support this award to recognize, encourage and reward high school students in computing," said Bell and Cutler. "We created this contest as a way to identify and support some of the most innovative and talented youth in the world of technology and computer science."

"We are grateful to Cutler and Bell for creating this prize," said ACM President Alexander L. Wolf. "ACM has led the effort to integrate computer science into the K-12 curriculum. As computing becomes increasingly prevalent in all walks of life, providing young people with access to quality computer science education is essential. We need to harness the creativity of our youngest citizens and cultivate their interest in being the creators of new and innovative technologies and products."

"Few fields can provide students with as much opportunity as computer science can today," said CSTA Executive Director Dr. Mark R. Nelson. "These students are developing exciting and original solutions to the world's biggest problems using computer science. The Cutler-Bell Prize demonstrates the possibilities if every student had access to a quality computer science education."

For more information about the ACM/CSTA Cutler-Bell Prize in High School Computing, visit [acm.org](http://acm.org) or [www.csteachers.org](http://www.csteachers.org).

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### **About ACM**

[ACM, the Association for Computing Machinery](#) is the world's largest educational and scientific computing society, uniting computing educators, researchers and professionals to inspire dialogue, share resources and address the field's challenges. ACM strengthens the computing profession's collective voice through strong leadership, promotion of the highest standards, and recognition of technical excellence. ACM supports the professional growth of its members by providing opportunities for life-long learning, career development, and professional networking.

### **About The Computer Science Teachers Association**

The [Computer Science Teachers Association \(CSTA\)](#) is a membership organization that supports and promotes the teaching of computer science and other computing disciplines. The Association of Computing Machinery founded CSTA as part of its commitment to K-12 computer science education. CSTA provides opportunities for K-12 teachers and students to better understand the computing disciplines and to more successfully prepare themselves to teach and learn.