Competitions and Community

Brevard Science Fair

- "Computer" category
- "Computer Science" category at the state level

- Intel International Science and Engineering Fair
 - o 2012: one of the two runners-up was from the CS category
 - http://www.intel.com/about/corporateresponsibility/education/isef/winners.htm
 - Improve the function of Internet search engines, allowing them to perform "micro-searches"

USA Computing Olympiad

- www.usaco.org
- 6 web-based contests during academic year, free!
- 3 divisions (bronze-beginner, silver-intermediate, gold-advanced)
- US Open in late spring
- 4 students represent the US in International Olympiad in Informatics

FIRST Robotics

- www.usfirst.org
- FIRST Tech Challenge
 - "Teams of up to 10 students are responsible for designing, building, and programming their robots to compete on a 12 X 12' field in an Alliance format against other teams.
 - Robots are built using a TETRIX® platform that is reusable from year-to-year using a variety of languages."

FIRST Robotics Competition

 "teams of 25 students or more are challenged to raise funds, design a team "brand," hone teamwork skills, and build and program a robot to perform prescribed tasks against a field of competitors"

Imagine Cup (Microsoft)

- www.imaginecup.com
- 16 or older (in high school or college) in teams
- Multiple Competitions
 - Software Design
 - Game Design
 - IT Challenge
 - 0 ...
- Each year has a theme
 - Past few years: UN Millennium Development Goals
- Annual cycle starts in July
 - Multiple Rounds
 - Worldwide finals in July

Computer Science Teacher Association

CSTA

- o csta.acm.org
- chapters across the country
- "supports and promotes the teaching of computer science and other computing disciplines."
- o "provides opportunities for K-12 teachers and students to better understand the computing disciplines and to more successfully prepare themselves to teach and learn"
- Curriculum
- Professional Development

Outreach Activities (Florida Tech)

- Fall
 - Help Mentor Science Fair projects
 - LASER Day
- Spring (January)
 - Community lecture
- Spring (February-March)
 - Visiting high schools
 - Visiting Florida Tech
- Summer (July)
 - Summer camps
 - Teacher workshop [this workshop]

Computer Science Education Act

- HR 3014
 - Congressman Polis (Colorado)
 - http://www.youtube.com/watch?v=063JN4h06el
 - (start at 1-minute mark)

