

ARTSI



- Brian Thomas
- Robots for Education (Chad Jenkins)
- Brown University
- Spring 2011
- Images courtesy of www.artsialliance.org

What is ARTSI?

- "Advancing Robotics Technology for Societal Impact"
- Collaborative education and research project
- Founded in 2007

Goals

- Increase African American participation in robotics and CS research
- Increase prevalence of robotics in HBCUs (Historically Black Colleges and Universities)
- Encourage K-12 and HBCU students to pursue CS and robotics education
- Promote role modeling and mentoring
- Create a nationwide learning community
- Make robotics careers attractive

Accomplishing ARTSI's Goals

- Student research conferences
- Summer faculty workshops
- Summer REU (Research Experience for Undergraduates)

Student research conferences

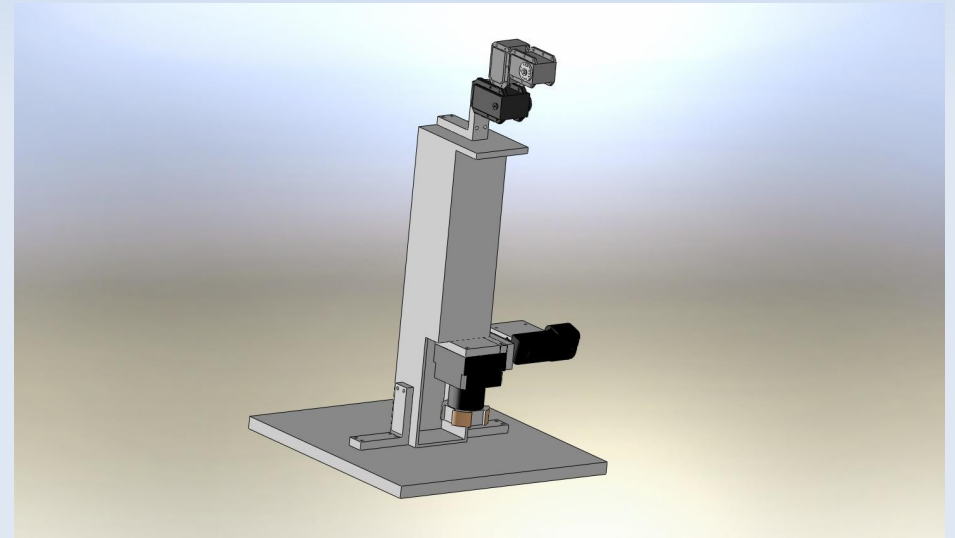
- Robotics competitions
- Computer science olympiads
 - Cryptography
 - Hardware/software integration
 - Robotics
 - Web design

Summer faculty workshops

- Seems like a mix between
 - Helping foster robotics education
 - Professors talking about their research
- Sample education-related topics from last year
 - Robotics Courses at HBCUs panel
 - Attracting Students to Computer Science Using Artificial Intelligence, Economics, and Linear Programming
 - Developing Robotics Curriculum Modules
 - Robot Platforms & Middleware Session

Summer REU

- Paid internship
- 8-10 weeks
- Students work with a professor on a project
 - Writing ROS drivers for the iCreate (with Chad Jenkins)
 - Create a dustpan robot for healthcare (with Charlie Kemp)
 - Collecting data from CRITICAL MASS bicycling event (with Carl DiSalvo)



Participating labs for REU

- Brown University (Chad Jenkins)
- Carnegie Mellon (Illah Nourbakhsh)
- Carnegie Mellon (Sara Kiesler)
- Carnegie Mellon (Dave Touretzky)
- Duke University (Jeff Forbes)
- Georgia Tech (Ayanna Howard)
- Georgia Tech (Carl DiSalvo)
- Georgia Tech (Charlie Kemp)
- Rice University (James McLurkin)
- University of Alabama (Monica Anderson)
- University of Michigan (Edwin Olson)
- University of Pennsylvania (C.J. Taylor)
- University of Pittsburgh (Quality of Life Technology Center)