Ayesha Bose

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EDUCATION:

Massachusetts Institute of Technology (2011 - 2015)
Candidate for Bachelor's Degree in Course 6, Electrical Engineering and Computer Science and Course 17, Political Science.
Francis Parker School, San Diego (2007 - 2011)
GPA: 4.65

EXPERIENCE:

Space Systems Laboratory (MIT), Cambridge, MA (2012 - ongoing)
Zero Robotics – Undergraduate Research Opportunities Program
- Working with a team on the Zero Robotics software high school competition, where the final stages of the competition will run on the International Space Station. Implementing this year's challenge.

Computer Science and Artificial Intelligence Laboratory (MIT), Cambridge, MA (2011 - 2012)
Cyber Security Analysis and Information Access – Undergraduate Research Opportunities Program
- Working on a project involving extraction of data from news reports on events in cyberspace and using machine learning and other computational methods to learn regularities or predict levels of conflict or cooperation.

Google, Mountain View, CA (2011)
Computer Science Summer Institute
- Learned AppInventor, Python, and AppEngine. Created a final project with similar functionality to Google Docs

Computer Science and Artificial Intelligence Laboratory (MIT), Cambridge, MA (2010)
Research Science Institute
- Worked under the direction of Dr. Daniela Rus on a vision system for an underwater robot. Project entitled, "A combinatorial method of object recognition for the AMOUR VI underwater robot". Worked in C++.
- Awarded Semi-Finalist in The Siemens Competition for work.

Space and Naval Warfare Systems Center (Office of Naval Research), San Diego, CA (2009)
Science and Engineering Apprenticeship Program
- Worked under the direction of Dr. LorRaine Duffy on a glove interface for a computer that would work in the absence of gravity. Project entitled, "Applications for a wearable multi-button controller using non-contact Hall Effect sensor technology". Worked in hardware and coded in a variant of C.
- Published article on work in Imagine Magazine (John Hopkins University) in the May 2010 issue

SKILLS:

Applications: AppInventor, AppEngine, SolidWorks, MiniTab, Mathematica, LaTeX
Platforms: Microsoft Windows, Linux, Android, Unix, Mac OS X
Languages: Python, C/C++, Java, LabVIEW, MySQL
Tools/Machine shop skills: Vertical Mill, Bandsaw, Horizontal Lathe, Soldering

AWARDS:

- National Winner for Junior Engineering Technical Society/Power Engineering Next Generation Scholarship (2011)
- Recipient of the Pinnacle Scholarship from Athena San Diego (2011)
- National winner for the Google Anita Borg Scholarship for First Years (2011)
- National winner for NCWIT's Aspirations in Computing Award (2011)
- Siemens Competition Semi-Finalist (2010)

ACTIVITIES:

2012-ongoing
MIT Society of Women Engineers, Corporate Relations Chair.
2011-ongoing
Kappa Alpha Theta sorority – Zeta Mu Chapter.
2011-ongoing
MIT Chamak. Indian-fusion dance team.
2008-2011
Founder of Girls' Science Club. After-school organization to promote curiosity about science and shift the gender bias in scientific jobs and career choices
2007-2011
Science Olympiad participant. President (2010-2011), Vice-President (2009-2010).
2007-2011
FIRST Robotics participant on Team 2485, Francis Parker W.A.R. Lords. President (2009-2011).
2007-2011
Academic League member. Varsity Captain (2010-2011), JV Captain (2009-2010).