

JOE ROMEO

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EDUCATION

University of Michigan – Ann Arbor, *Ann Arbor, MI* Sept 2009 – Present
B.S., Computer Engineering & Electrical Engineering
GPA: 3.1

LEADERSHIP

Computer Science and Engineering Scholars Club, *Ann Arbor, MI* Sept 2010 – Present
President, April 2011 – Present

- Restructuring organization to be more organized and social
- Setting up and planning events for next fall with the new officer board
- Developing new ways to make students more involved in organization

Community Service Chair, December 2010 – April 2011

- Organized over 50 hours of community service in the Winter of 2011 semester
- Motivated over 30 members to volunteer with me in both Ann Arbor and Detroit
- Organized fundraisers; raised \$500 for Relay for Life, an organization that helps fight cancer

EXPERIENCE

EECS 452 Digital Signal Processing Lab, *Ann Arbor, MI* Jan 2011 – April 2011
Hardware peripheral interfacing specialist

- Implemented a wireless network between FPGA and robot using Xbees
- Designed and implemented a communication system between computer, FPGA, processor and robot
- Implemented a digital signal processing algorithm in a memory-constrained environment
- Programmed in C++, C, Verilog and Python

EECS 498 Smartphone Programming, *Ann Arbor, MI* Jan 2011 – April 2011
Hardware peripheral interfacing specialist

- Programmed in Java and XML
- Worked with the accelerometer, speech to text, and text to speech hardware
- Worked with Adobe Photoshop and OpenGL to make a graphics user interface
- Presented bi-weekly to class with updates on application progress

Solar Bubbles, *Ann Arbor, MI* Sept 2010 – Present
Embedded Hardware Team Member

- Attended weekly meetings to discuss progress of system
- Designed a servo switch controller(SSC) using AVR Studio and Atmel microcontrollers
- Compiled many trade studies to ensure design met specifications

Student Space Systems Fabrication Laboratory (S3FL), *Ann Arbor, MI* Jan 2010 – May 2010
Data Collector & Analyser for XSAS(Extendable Solar Array)

- Implemented a wireless network using Xbees
- Participated in a 6-week outreach program with elementary/middle school students
- Designed Printed Circuit Board for a single-master, multi-slave network using Eagle
- Helped prepare and present for Critical Design Review of our extendable solar array
- Compiled trade studies to ensure design met specifications

COMPUTER SKILLS

Languages

- Matlab, Simulink, C, C++, Java, Verilog, VHDL, XML

Software

- Microsoft Office (Word, Excel, PowerPoint), Adobe Photoshop