Austin Xu

Local Address:
7313 Thronson House, South Quadrangle
600 E. Madison
Ann Arbor, MI 48109

austinxu@umich.edu
248-402-3571

Permanent Address:
3783 Red Maple Ct.
Oakland Township, MI 48363

Objective

Meticulous electrical engineering student with hardware test and design experience seeking to apply my classroom and project experience to either designing or verifying analog, digital, or mixed signal systems.

Education

University of Michigan Ann Arbor, MI
Bachelor of Science in Electrical Engineering *December 2018*
GPA: 3.972/4.0

Awards & Honors: William J. Branstrom Freshman Prize Recipient [Fall 2015], College of Engineering Dean's List [Fall 2015, Winter 2016, Fall 2016], University Honors [Fall 2015, Winter 2016, Fall 2016]

Relevant Coursework:

Digital Integrated Circuits [EECS 312]	Intro to Signals and Systems [EECS 216]	Probabilistic Methods in Engineering [EECS 301]
Programming and Introductory Data Structures [EECS 280]	Intro to Logic Design [EECS 270]	Intro to Circuits [EECS 215]

Experience

Radiation Detection and Measurements Group, Research Assistant *October 2016 – present*

- Optimized the preamplifier portion of an analog gamma ray sensing circuit to reduce noise and minimize capacitance through iterative simulation.
- Developed and simulated various schematic versions of the circuit with Altium Designer.
- Collected data used to determine positions of radiation concentration from an emission source using a scintillator and a silicon photomultiplier (SiPM). Used raw data and Matlab to plot positions of radiation concentration.

University of Michigan Computer Aided Engineering Network, Web Publisher *May 2016 – October 2016*

- Automated the management of form input data with Google Apps Scripts to streamline administrative processes, such as budget requests and server and database requests.
- Researched Linux container based web application development platforms (Docker) as a potential alternative to web applications currently being developed within CAEN.

ENGR100 Final Project, Electrical Engineering Lead, Documentation Lead *March 2016 – April 2016*

- Led sub-team in charge of design and implementation of Remotely Operated Vehicle (ROV) electrical systems.
- Integrated electrical control system and soldered control box in order to maximize ROV speed and maneuverability.
- Led sub-team documenting project progress. Reviewed and edited team reports and presentation to ensure effective communication with project supervisors.

Human Powered Submarine Student Project Team, Electrical Engineering sub-team *September 2015 – May 2016*

- Soldered printed circuit board (PCB) and integrated submarine electrical control systems to ensure proper maneuverability of submarine.
- Developed and debugged program in collaboration with peers which executed SPI data transfer between rotary position sensor and Teensy microcontroller.

Activities and Leadership

University of Michigan
Eta Kappa Nu- Beta Epsilon, IEEE Honor Society *September 2016 – present*
SWAM Club, Member *September 2015 – present*

Skills

Languages spoken: German (professional working capacity, 6 years of experience, 1 month abroad).
Programming Languages: Experience with Verilog, C++, Matlab, Javascript.
Applications: Experience with Altium Designer, Multisim, Quartus, LabVIEW.