Bradley Hecht

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Education

University of Michigan-Ann Arbor Fall 2013 - Present

GPA: 3.73 / 4.0
Major: Electrical Engineering, focus in MEMS and Microsystems
Relevant Courses: Electronic Circuits, Monolithic Amplifiers, Integrated Microsystems Lab, Introduction to Logic Design, Integrated Microsystems, Introduction to MEMS
Awards: Dean's List, University Honors, Eagle Scout
Degree Earned: B.S.E April 2016
Intended Graduation Date: M.S.E. April 2017

Experience/Activities

Analog Devices, Inc. June 2016 – Present

Analog Design Intern

-Designed schematic and board layout for MEMS accelerometer control circuitry, capable of both low and high g sensitivity
-Assisted in testing of Analog's first MEMS resonant accelerometer
-Performed benchwork and shock testing of MEMS gyroscopes

University of Michigan EECS Department July 2015 – Present

Instructional Aide

-Served for one semester for EECS 230: Electromagnetics, and one semester for EECS 215: Intro to Circuits
-Taught and graded the lab component of the classes, which involved teaching the applications of theory
-Held at least 3 weekly office hours where students could receive assistance on homework assignments and general conceptual understanding, as well as managed online forums for students to ask questions

Eta Kappa Nu May 2015 – Present

President May 2016 – Present

-Organized general meetings, events, officer meetings and functioned as the organizations liaison with the University and the EECS department.
-Relaunched the Student Projects Lab through reorganization and acquiring equipment and facilities

Vice President Jan 2016 – May 2016

-Handled all new incoming members, and facilitated their joining the organization through tracking of service hours, managing events, and coordinating active mentorship
-Worked with HKN President to improve involvement of current member and increase the visibility of organization at the university.

Operations Officer May 2015 – Jan 2016

-Managed a café that serviced the students of the University, including procuring items for sale, determining pricing, and organizing the over 50 students that volunteer to run daily operations
-Collaborated with other officers in IEEE for the management and operation of the cafe

Intel May 2015 – Aug 2015

Platform Application Engineer Intern

-Gained expertise on architecture and design for Xeon E7 servers
- Attempted to design and implement a VPN solution for remote access debugging, scaling the current solution for about twenty machines to one to handle several hundred
-Developed scripts to administrative tasks, such as automatic collateral list updates and hardware requests, that required many manual hours using backend server and web development

MHybrid Formula Hybrid SAE Sept 2014 – May 2015

High Voltage System

-Designed and soldered printed circuit board containing all of the critical high voltage systems
-Worked with systems monitoring the high voltage aspects of the car, allowing for safe operation of the vehicle and competition rule compliance
-Assisted with creation of battery pack system for safe operation of the 135V high voltage system

Skills

-Experience with object oriented programing
-Proficient with Windows, Linux, Matlab, Cadence Virtuoso
-Lab and manufacturing experience
-Experience with Comsol for MEMS/sensor simulation