Denny Zhang

(248)-376-5797 dennyz@umich.edu

Education:

University of Michigan - Ann Arbor Current GPA 3.67 / 4.0

Bachelor of Science in Electrical Engineering ***Anticipated May 2017***

Honors: Dean's List, University Honors

Relevant Coursework: Intro to Signals and Systems, Intro to Logic Design, Data Structures and Algorithms, Digital Signal Processing, Analog Circuits, Electric Machinery and Drives

Member of Eta Kappa Nu (HKN) – Beta Epsilon Chapter

Experience:

Continental Automotive Systems ***Auburn Hills, MI***

Interiors Division EE Hardware Intern ***May 2016 – August 2016***

- Implemented new functions on a 7-inch HD display driver board
- Created a demo to send touchscreen data through an FPD-link.
- Produced a working mockup for a futuristic triple display instrument cluster
- Performed signal timing verification over temperature in an environmental chamber.

Intel Corporation ***Santa Clara, CA***

Data Center Group Intern ***November 2015 – May 2016***

- Developed a remote monitoring hardware tool for Xeon 4-Socket Server Reference Platforms
- Launched a network storage server into production, easing collaboration between teams.
- Debugged video output of an 8-Socket server, supporting the power-on effort.

University of Michigan Solar Car Team ***Ann Arbor, MI***

Race Crew Electrical Engineer ***August 2013 –November 2015***

- Designed the complete set of hardware from schematics to PCB layout using Altium
- Produced and assembled boards with hand-soldering and reflow soldering methods
- Improved Battery Management System for increased sensitivity, reliability, and accuracy
- Developed firmware to run systems and defined inter-system interfacing through the CAN bus
- Assembled validation platforms to verify and debug firmware functions
- All systems survived harsh Australian Outback conditions with no issues
- Raced a solar car as an official driver in the 2014 American Solar Challenge

Tetra Imaging ***Royal Oak, MI***

Research Assistant ***July 2012 – September 2012***

- Developed a LabVIEW controller for an isothermal vacuum chamber with hysteresis control
- Designed and produced high voltage power supply boards for X-ray tube arrays
- Programmed an FPGA to control the X-ray tube firing sequence

Projects:

Mini Magnetic Stripe Emulator

- Designed ultra-low power circuitry to achieve emulation function to be powered by coin cell
- Packaged tool into a credit card form factor

Reflow Toaster Oven

- Implemented a PID controller with a thermocouple and SSR for precision temperature control
- Used oven for countless batches of boards destined for the solar car

Skills:

- Languages: C, C++, embedded C for PIC, AVR, and STM32, Matlab, LabVIEW, Python
- Applications: Altium, EagleCAD, AutoCAD,
- Work with electronics soldering and debug equipment