CALEIGH CHONG

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2060 Sanford
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EDUCATION:

University of Michigan, Ann Arbor MI **September 2012 - present**
Electrical Engineering
Expected Graduation Date: May 2016

Shanghai JiaoTong University **Summer 2014**
Study Abroad

RELEVANT COURSEWORK:

Circuits, Signals and Systems, Introductory Data Programs and Structures, Electromagnetics, Intro to Logic Design, Semiconductors, Digital Integrated Circuits, Digital Signal Processing, Introduction to Computer Organization

PROJECT EXPERIENCE:

Hybrid Racing Team **2014**

- Work with a team to design, build and race a hybrid race car
- Designed and built housing for the car's electrical systems
- Worked on and tested the battery

3:8 Bit CMOS Decoder **2014**

- Designed a 3:8 bit decoder that minimizes the energy delay product under delay time and output transition time constraints
- Used Cadence to design, test and optimize the decoder
- Tested different types of CMOS logic in our inverters and NAND gates to minimize energy consumption

ENGR100 – Green Engineering Harvesting the Wind **2013**

- Worked with a team to design and construct an innovative wind turbine prototype
- Prototype designed to produce 5W of energy while maximizing efficiency and reducing cost
- Created with the goal of implementing the turbine in rural Guatemala
- Tested prototype and analyzed results

WORK EXPERIENCE:

University Housing Residential Advisor (RA) **September 2013 – present**

- Administrative work for the residence hall, including support for a residence hall of 1300 first year students
- Responsible for the security and privacy of resident's information
- Build community within the residence halls by organizing events and providing access to different resources

Ecology Lab Assistant **2012-2013**

- Sampled and processed soils and litterfall samples from the Burn Chronosequence at the UM Biological Station
- Performed spectral analysis of soil and litterfall samples to test levels of Carbon and Nitrogen storage
- Investigated charcoal size and mass distribution across the chronosequence
- Gained experience writing research papers and presenting findings for a symposium in Spring 2013

SKILLS:

Programming: C++, Matlab, Basic HTML, CSS
Technical: Verilog, Cadence, Embedded systems
Other: Intermediate Chinese, Microsoft Office, research and data analysis