# Carl Steinhauser

269-932-8056 | 9319 Lauer Rd., Berrien Springs, MI 49103 | steica@umich.edu

## EDUCATIONAL BACKGROUND

**University of Michigan** *Ann Arbor, MI* *September 2014 – Present*

- Electrical Engineering, B.S.E expected in April 2018
- GPA: 3.980/4.0
- College of Engineering Honors Program
- Corporate Relations Officer of Eta Kappa Nu (Fall 2016)

**Berrien Springs High School** *Berrien Springs, MI* *September 2010 – June 2014*

- Valedictorian of the class of 2014
- President of National Honor Society, President of Business Professionals of America, President of Senior Class, Vice-President of Student Council

## PROFESSIONAL EXPERIENCE

**Delphi Engineering Intern** *Troy, MI* *May 2015 – August 2015*

- Designed and executed a set of tests to gain understanding of the effects Delphi manufacturing practices have on electromagnetic properties of twisted pair wire for Ethernet applications in vehicles
- Managed timeline of acquiring supplies, tooling, and test requests to accommodate the three month time period of the internship
- Developed a control interface in Excel to facilitate storing validation test data on a SharePoint server and then automatically create reports with the data
- Created MATLAB tools to accelerate file processing in the Electromagnetic Compatibility Lab

**University of Michigan Research Assistant** *Ann Arbor, MI* *September 2014 – Present*

- Worked with a group of two other undergraduate students under Professor Don Siegel in the Energy Storage and Material Simulations Lab
- Validated classical molecular dynamics model of solvents by running simulations with LAMMPS code and then comparing results to experimental data
- Wrote Python scripts to prepare input files and process output files which allowed the group to analyze ion association in the solvent models
- Presented results at the National Conference for Undergraduate Research (March 2015)

**University of Michigan Peer Advisor** *Ann Arbor, MI* *September 2015 – May 2015*

- Advised and tracked thirteen students through their freshmen research experience by providing feedback on resumes and teaching them how to effectively communicate with university faculty
- Led group discussions where students shared their research projects and reviewed articles in their field of research.
- Organized five seminars where faculty discussed research topics and career pathways

## PROJECT EXPERIENCE

**Michigan Hybrid Racing** *September 2014 – April 2015*

- Worked in a team of four students to design, test, and implement circuitry for safety lights required for the high voltage batteries
- Individually designed a small printed circuit board with Eagle CAD that was needed for mounting current sensors for the high voltage batteries

## COMPUTER SKILLS

- Proficient in MATLAB, Verilog, C++, Python, and VBA
- Proficient in Unix/Linux environment
- Applications: Proficient with Microsoft Office and have experience with OriginPro and Eagle CAD

## HONORS AND ACTIVITIES

- James B. Angell Scholar (2016), University Honors (2016), William J. Branstrom Freshmen Prize (2015), Moloney Family Scholarship (2014-present), Heart of Cook Scholarship (2014-present)