**ERIC R PREWITT**

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**Objective**

To obtain a co-op position for Fall 2019.

**Education**

University of Kentucky Lexington, KY

B.S. Mechanical Engineering and Computer Science B.S. Completion Anticipated Dec 2019

**Notable Coursework:** Systems Programming, Combustion Phenomena, Nondestructive Testing, Machine Design, UK LEAN Student Certification, Logic/Theory of Computing, Computer Organization, Intro to Database Systems

**Skills**

Microsoft Office, CAD (Autodesk Inventor, Solidworks, AutoCAD, Creo Parametric), ANSYS, MATLAB, Python, C++, C, Arduino, CAN implementation

**Student Organization Involvement**

**Formula Kentucky 2016-Present**

Designed an electrical shifting mechanism for previous car. Currently leading electrical team for current and future cars, with a focus on data acquisition and sensor implementation.

**Projects**

**Capstone Senior Design (Mechanical Engineering), UK Solar Car Mechanical Braking System, 2016-2017:** As a team, designed mechanical braking system from pedal to calipers. Lead design of pedal assembly and implementation of sensors for electrical braking systems.

**Formula Kentucky Electronic Shifter, 2017-2018:** Designed an electronic shifting system for the 2018 car from the ground up, including specifying the correct microcontroller, specifying a PCB to be designed, programming 2 boards to communicate via CAN and specifying an appropriate servo motor for the task.

**Formula Kentucky Electrical Lead, 2017-Present:** Lead small team to design electrical system for 2017 through 2019 cars, including wiring harness design, electrical component specification and design and datalogging systems specification and design.

**Work Experience**

**Toyota Boshoku America, Production Engineering Internship, 2018:** Worked on implementation of production lines for a new, not yet in production product. Handled all spare parts and trial parts ordering, tracking and inventory for program.