

# Brian Glen - Electrical Engineering Major

## Objective

Currently seeking a summer Co-op position to apply my skills as a maker and engineer to rapidly develop innovative new products and ideas, working in a fast paced environment with a passionate team.

## Education

### **B.Sc Electrical Engineering Candidate, University of Akron - Current Junior**

August 2019 - April 2022 Akron, OH

### **Electrical and Computer Engineering, The Ohio State University**

August 2017 - April 2019 Columbus, OH

**Relevant Courses:** Digital Logic Design, Discrete Signals and Systems, Analog Systems & Circuits, C++ Programming, Java Programming, Software I, Physics E&M

## Work Experience

### **Undergrad Research Assistant with Dr. Nicholas Garafolo, University of Akron**

May 2019 - Present - 8 mo. Akron, OH

- Confidential project developing experimental aerospace vehicles
- Designed and implemented CANbus controlled stepper drivers, power distribution boards, high-side load switches, and ideal-diode protection circuits
- Oversaw projects from schematics, component selection, PCB design to physical mounting and enclosures
- Authored power system efficiency and heat dissipation trade studies
- Extensive use of datasheets, SPICE, KiCAD and Solidworks

### **Power Systems Engineering Intern at Specialty Magnetics LLC**

June 2015 - August 2018 - 3 yrs. 2 mo. Macedonia, OH

Learned high voltage dry-type transformer design, worked directly on customer products, helped design transformers, reactors, and inductors for single and three phase high power systems using SPICE software, OPS and ProE. Designed electrical testing procedures, wrote test reports, and conducted hi-pot, double induced, and BIL lightning strike testing on up to 70kV and 1 MVA devices.

## Activities

### **Hardware Hacking - Hakron, MLH 2017-Present**

Participated in various 24 and 36 hours engineering challenges emphasizing teamwork, efficiency, and learning new skills very quickly.

### **Engineers for a Sustainable World - 2019-Present**

Member of a team building an augmented electric bike experience for Akron students.

## **Contact Info**

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### **Linkedin**

<https://www.linkedin.com/in/brian-glen-698756129>

### **Website:**

[www.brianglen.com](http://www.brianglen.com)

## **Skills**

- Circuit Design with LTspice
- PCB board layout with KiCAD
- Embedded programming, AVR & ARM-based
- Can create readable schematics, CAD drawings, and electrical documentation
- CAD, CAM & with Solidworks, Fusion 360
- Operation of electrical test equipment, oscilloscopes, function generators, power supplies, LabVIEW DAQs
- 3D Printing and Laser Cutting
- Machining and fabrication skills, hand & power tools