

Brian R. 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
- Built projects from schematic through component selection, PCB design, physical mounting and enclosures
- Authored power system efficiency and heat dissipation trade studies
- Extensive use of datasheets, SPICE, KiCAD, 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

Hackathons - 2018 - Present

Participated in various 24 and 36 hours challenges run by Major League Hacking building hardware projects that emphasized teamwork, efficiency, and learning new skills very quickly. Member of U of A's Hakron organization

Contact Info

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Linkedin

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Website:

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