

Brian Glen

Objective

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

Education

Electrical and Computer Engineering, The Ohio State University

Expected Graduation: May 2021 Columbus, OH

Relevant Courses: Digital Logic Design, Analog Systems & Circuits, C++ Programming, Physics E&M

Employment History

Co-Founder at Nifty Parts LLC

August 2018 - Present. - 3 mo. Akron, OH

Nifty Parts provides the maker community with an easier way to obtain documented, reliable electronic components at a low cost. **Finalist for the 2018 UA/eBay Startup Challenge.**

Power Systems Engineering Intern at Specialty Magnetics LLC

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

Learned dry-type transformer design, worked directly on customer products, designed and tested transformers, reactors, and inductors for single and three phase power systems.

Activities

Hackathons, 2018 & 2019 Seasons

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.

Projects

Electric Bike

Designed a removable electric drivetrain for a bike. Built a custom battery out of 18650 cells, built a drive pulley via carbon fiber layup, and 3D printed motor mounts and belt tensioners.

LED Nixie Clock

Laser-cut six edge lit displays, mimicking classic nixie tube designs with LEDs. Custom designed PCBs manufactured in China, custom made microcontroller board.

Robotic Tank

Built a remote control "tank" for hauling heavy equipment. Mostly fabricated out of aluminum with custom 18650 battery pack and dual motor track drive.

3D Cake Icing Printer

Modified the extruder of a 3D printer to dispense icing out of a syringe, to create icing designs on cookies and cakes. Most Technical Hardware Award at Hakron 3000.

Details

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Linkedin

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Website:

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Skills

CAD and CAM with Solidworks

Microcontrollers and Circuit Design, Arduino

PCB Design with KiCAD and Diptrace

3D Printers and Laser Cutters

C, C++ and Python Programming

GoLang, CSS & HTML

Machining and Fabrication

Fiberglass and Composite Construction