Brian Glen

👤 Objective

Currently seeking a summer 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

Electrical Engineering with Co-op, University of Akron

Expected Graduation: May 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

💼 Employment History

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 high power systems using electrical simulation and ProEngineer.

⚙ 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. Attended MakeHarvard, Hakron, HackOH/IO, hackCWRU.

📊 Recent Projects

Electric Bike	Robotic Tank
Designed a completely removable electric drivetrain for a bike. Built a custom battery out of 18650 cells with battery management, an adjustable tension brushless drive system, and currently fabricating a carbon fiber drive pulley using open face 3D printed molds.	Built a remote control "tank" for hauling heavy equipment to electronics events. Made out of fabricated aluminum plate with custom 18650 battery pack and dual motor sensored BLDC track drive.
LED Nixie Clock	**3D Printer**
Laser-cut six edge lit displays, mimicking classic nixie tube designs with LEDs. Custom designed PCBs for each digit, custom made microcontroller board using Atmel 328p, real time clock, and FTDI USB to Serial Interface.	Currently designing a medium sized FDM 3D printer for everyday use. Carbon fiber gantry, CoreXY movement system, remote direct drive extrusion. Goals for this project are extremely fast print speed, and high print volume to machine volume.

Details

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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
- Machining and Fabrication, CNC Milling
- Fiberglass and Composite Construction