

Jessica C. Harding

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Education

Integrated B.S./M.S. in Electrical Engineering
Case Western Reserve University, *Cleveland, Ohio*
Cumulative GPA 3.898/4.0

May 2021

Special Skills

Equipment Skills	Soldering	♦	PCB Routing	♦	3D Printing	♦	3D Scanning	♦	Laser Cutting
Software Skills	SolidWorks	♦	CorelDraw	♦	MentorGraphics	♦	Eagle	♦	ModelSim
Coding Languages	Java	♦	Python	♦	Assembly	♦	Verilog	♦	VHDL

Work Experience

Terves Inc., *Euclid, OH*
Safety Intern

May '19-Aug'19

- Designed and built a machine to cut extruded filament into pellets using a VFD and surrounding circuitry to create a simple user interface.
- Developed and implemented a preventative maintenance schedule and instructional maintenance documentation for industrial lathes, mills, and saws
- Implemented a new chemical inventory system that facilitated easy access to safety data sheets
- Developed lockout/tagout procedural documents and training program

Think[box] Innovation Center, *Cleveland, OH*
Prototyping Technician

Aug'18-May'20

- Led a team to design a robot that processes an image of the user and efficiently draws it
- Designed and taught a course in both circuit design and 3D Printing
- Responsible for the upkeep and maintenance of laser cutters, 3D printers, pcb router
- Troubleshoot machine malfunctions and determine solutions in a timely manner
- Provide tailored customer service to local innovators by quickly understanding project goals in order to make recommendations
- Train new users for optimal results, and identify and correct files for proper use on equipment

CWRU Electrical Engineering Department, *Cleveland, OH*
Intro to Circuits Laboratory Teaching Assistant

Oct '19-May'20

- Taught proper lab techniques to multiple 40 person classes covering lab equipment use, logical breadboard layout, and communicated course concepts
- Quickly understand student designed circuits in order to debug novice attempts at construction

Coursework

Applied Circuit Design
Leading People
Electronic Circuits
Programming in Java
Data Structures

Designing IoT Edge Devices
Electronic Analysis and Design
Radio and Communication
Electromagnetic Fields
Signals and Systems

Digital Systems Design
Digital Logic Laboratory
Logic Design and Computer Org.
Semiconductors
Statistics of Signal Processing
