Jessica C. Harding

jch202@case.edu • (410) 660 - 6708 • jcharding.tech • /in/jessicacharding

EDUCATION

Case Western Reserve University, Case School of Engineering, Cleveland, OH   Expected: May, 2021
Integrated B.S./M.S. in Electrical Engineering, concentration in Circuits and Hardware   *Cumulative GPA: 3.89/4.00*
Relevant Coursework: Applied Circuit Design, Data Structures, Designing IoT Edge Devices, Digital Systems Design, Digital Logic Laboratory, Electronic Analysis and Design, Electronic Circuits, Leading People, Semiconductors, Signals and Systems
Honors/Awards: Dean's High Honors, Rewrite the Code Fellow, The Electrical Engineering Service Award, Women in Tech Scholar
Scholarships: Case Alumni Association Scholarship, University Merit Scholarship

SKILLS

Coding Languages: Java, Python, C++, Dart, Verilog, Assembly, VHDL, HTML CSS
Software Skills: Eagle, LTSpice, CorelDraw, SolidWorks, Mentor Graphics, ModelSim
Prototyping Skills: PCB Layout/Routing, Soldering, 3D Printing, Laser Cutting, Water jetting

PROFESSIONAL EXPERIENCE

Rockwell Automation, Mayfield Heights, OH
Embedded Software Co-Op   Jun 2020 - Present
- Performed static analysis on and resolved errors to make C++ code MIRSA compliant
- Updated internal automation processes in Python and linux shell scripts
- Implemented rolling timestamp in C++ on communication between field and processing units

GXC, Middleburg Heights, OH
UI/UX Intern   Jun 2020 - Present
- Utilized Dart and Flutter to make a responsive To-Do List Application
- Processed JSON data from server requests to create responsive widgets

Case ECSE Dept, Cleveland, OH
Teaching Assistant for Intro to Circuits   Oct 2019 - May 2020
- Taugh multiple 40 person classes lab techniques and proper use of oscilloscopes, function generators, and power supplies
- Quickly understand student designed circuits in order to debug novice attempts at circuit construction

think[box], Cleveland, OH
Prototyping Technician   Aug 2019 - May 2020
- Led team of 4 in the design of a robot that processes an image and uses an XY plotter to draw it
- Process and gerber files to route custom printed circuit boards
- Designed and taught courses in circuit design and 3D printing
- Troubleshoot machine malfunctions to determine solutions in a timely manner
- Provide tailored customer service to local innovators by understanding project goals and making design recommendations

Terves, Euclid, OH
Safety Intern   May 2019 - Aug 2019
- Designed and built a machine to cut extruded filament into pellets using AC motor, VFD, and custom interface circuitry
- Developed and implemented a preventative maintenance schedule and instructional documentation for laths, mills, and saws
- Implemented a new chemical inventory system that facilitated easy access to safety data sheets and reduced misplaced chemicals
- Developed lockout/tagout procedural documentation and training program

AFFILIATIONS

Member - Tau Beta Pi Engineering Honor Society	Mar 2020 – Present
Member - Institute of Electronic and Electrical Engineers(IEEE)	Jan 2019 – Present
Member - Women in Science and Engineering Roundtable(WISER)	Aug 2017 – Present