

# Jessica C. Harding

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## EDUCATION

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**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

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**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

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**Rockwell Automation**, Mayfield Heights, OH Jun 2020 - Present  
*Embedded Software Co-Op*

- 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 Jun 2020 - Present  
*UI/UX Intern*

- 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 Oct 2019 - May 2020  
*Teaching Assistant for Intro to Circuits*

- Taught 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
- Explain fundamental circuit concepts and their applications in practical constructions

**think[box]**, Cleveland, OH Aug 2019 - May 2020  
*Prototyping Technician*

- 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 May 2019 - Aug 2019  
*Safety Intern*

- 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

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**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