Shane Rothery

10671 Willow Brook Rd.
Centerville, OH 45458
(937) 369-7554
isrothery@gmail.com

JOB EXPERIENCE

Electrical Product Design Engineer | 4/2024 to Present
Automation Within Reach (Gosiger)
- Sole designer of electrical panels for use in automation equipment.
- Created schematic drawings for machine tending systems, along with testing and production hardware.
- Drafted programs for safety controllers using ethernet/IP to communicate and interpret safety related data.
- Worked with manufacturing to prototype products, and assisted in shifting to mass production.
- Collaborated with external OEM to maintain high levels of product standards, specifically UL508.

Automotive Technician | 3/2023 to 1/2024
Snyder's Car Care & Valentino's Car Care
- Performed troubleshooting, diagnosed root cause of problems, and generated repair estimates
- Maintained tools and inventory

Test Engineer | 5/2022 to 11/2022
Honda Development and Manufacturing America
- Conducted testing and analysis of FI-ECU electrical systems and specifications using Honda's proprietary ECU software
- Analyzed CAN and LIN data along with internal CPU logic to determine ECU functionality both internally and externally with other systems
- Made initial judgements on accuracy of hardware and software performance compared to the original specifications
- Presented results to senior engineering staff on a regular basis

Retail & Customer Service | 1/2018 to 8/2020
Advance Auto Parts
- Assisted customers diagnosing problems and supplying replacement parts
- Maintained inventory
- Performed maintenance on customer vehicles

Laser Web
- Performed customer service in the functions of sales, training, and hosting
- Maintained electrical equipment and maintained inventory

EDUCATION

Bachelor of Science in Electrical and Computer Engineering
The Ohio State University, Columbus, OH
May 2022

PROJECT EXPERIENCE

Please refer to **https://isrothery.wixsite.com/digitalportfolio** for more detailed information.

Technical Skills

Design Autodesk Inventor, AutoCAD Electrical, Solidworks, OnShape, EASYEDA, DIYLC, LTSpice, Cura, C++, MATLAB/Simulink, Raspberry Pi, Arduino, FPGA, Cadence, Xilinx, Node-Red

Application 3D Printing, CNC, Soldering, Breadboarding, Wiring, Fabrication, Hand Tools

Analysis Multimeter, Oscilloscope, Signal generator, Caliper

Communication/Presentation Microsoft: Word, Excel, PowerPoint; Google: Docs, Sheets, Slides