Adam McWhirter

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Professional Summary

Curious and Motivated Junior Mechatronics Engineer with 2 years of internship and job experience. Seeking employment in the fields of automation / robotics.

Technical Skills

Autodesk	ePlan	AGV Programming
Solidworks	Customer Service	Safe Business
Team Management	MATLAB	Cross-Functional Collaboration
Lean Manufacturing	Welding	3D Printing

Professional Experience

Applications Engineer: Applied Industrial Equipment — May 2023 – Current

- Designed custom control panels in ePlan electrical CAD software
- Hands on panel wiring / layout experience
- Studied and complied with IEC / NEMA guidelines for control panels
- Extensive knowledge of automation components
- Inside sales experience (interfacing with customers and processing orders)
- Processed and designed over $450,000 worth of control panels

Manufacturing Engineering Intern: Kubota Industrial Equipment — May 2022 – August 2022

- Programmed AGV and optimized route
- Designed and manufactured 3 parts carts from scratch
- Helped install Allen Bradley PLC
- Learned Six Sigma / lean manufacturing concepts

Creative Writing Contractor: Industry Leading YouTuber — November 2020 – April 2023

- Assist in initial planning stages, implementation of ideas.
- Help to create some of the most viewed YouTube videos on Earth.

Education

Kennesaw State University — Graduated May 2023
BS Mechatronics Engineering — 3.45 GPA

Projects

Electromagnetic Valve Actuation Project [Senior Design] — Spring 2023

- Completed during my final semester at Kennesaw State University as my capstone project.
- Brainstormed, designed and built a proof of concept system.
- The project was designed to show that the traditional mechanical camshaft system in an I.C.E. vehicle could be improved upon if electromagnets were used instead.
- Presented to professors and dean of engineering college at the design fair.

Automated Guided Vehicle Project — Summer 2022

- Project completed at Kubota Industrial Equipment, manufacturer of industrial machinery.
- Redesigned and optimized an existing AGV path on the factory floor.
- Reduced the number of AGVs on route from 2 to 1 while keeping up with supply needs.
- Designed new cart for AGV to tow in Inventor CAD software.
- Documented results and gave a presentation to the upper-level management of Kubota.

Professional Organizations

The Boy Scouts of America: Earned the rank of Eagle Scout, over 100 volunteer hours
First Tech Challenge: Competed in seasonal robot competitions against other teams. I worked with a team of 6 to build the robot from scratch. I was the mechanical and wiring lead for the team as well as the main driver.