

Jonathan M. Fisher

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Objective

Results-oriented Mechanical Engineering major with 4 years of experience in customer service and team leadership, specializing in robotics and automated systems. Proficiency with CAD, 3D printing, and computer programming. Excels in fast-paced production environments, making agile decisions, and collaborating with diverse creative teams. Seeking a challenging internship or Co-op opportunity in the robotics field for Summer 2025.

Education

Georgia Institute of Technology | Atlanta, GA

Perusing BS in Mechanical Engineering, GPA 3.75

August 2023 – Present

Expected Graduation, May 2027

Skills

Prototyping: Soldering, Lathe, Manual Mill, Band saw, 3D printing[FDM & SLA], PCB design, Hand tools

Programming Languages: Python, Java, C#, C++, JavaScript, SQL, HTML, TI Basic, ladder logic

Hardware: Raspberry Pi, Arduino microcontrollers, Allen & Heath, Fork lift

Software: SolidWorks, Autodesk Inventor, KiCAD, Arduino IDE, Jands Vista, ProPresenter, Automation Direct

Communication: Customer Service, Public Speaking, Presentation (conference and poster), Small group leader

Languages: English (fluent), German (conversational)

Experience

Thermopore Material Company | Newnan, Ga

May 2024– August 2024

Engineering Intern

- Designed in SolidWorks and fabricated systems for a vibratory part escapement system using FDM and SLA 3D printing technologies.
- Created a custom program from scratch to process downloaded bolts from McMaster-Carr, including thread removal, material-based color coding, and saved files into location in a server.
- Worked in a Manufacturing Engineering roles, machining parts and assembling machines from design drawings.
- Performed electrical wiring, soldering, and long-distance cable routing for various projects
- Wrote PLC code to control a DC motor with PWM signals, enhancing automation processes.

Invention Studio | Peer Instructor & Shift Manager

August 2023 – Present

- Ensure student and over staff safety and impart essential skills for tool utilization.
- Guide students in proper tool use, fostering a secure and educational environment.
- Provide hands-on assistance in project development, offering guidance and insights. Proficient across diverse tool groups, including woodworking, metalworking, waterjet, laser cutting, sewing, vinyl stickers, and electronics.
- Guide and support other Peer Instructors on their shifts.

Projects

Remote Controlled Hovercraft

March 2024

- 3D printed craft body, made skit out flexible plastic sheet
- Soldered and wired ESC, transmitter, motor, LiPo battery

Inverse Kinematic controlled 3 DOF robotic arm

July 2024

- Designed in CAD and 3D printed an arm with inserted ball bearings
- Arduino Controlled software to take rotary encoded X,Y,Z coordinates inputs and convert to into arm motion

Leadership and Activities

Invention Studio | Director of Programming

May 2024 – Present

- Plan, manage and execute events for a campus makerspace for upwards of 150 people.
- Orchestrated, trained, and managed the staffing of educational project-based workshops for students
- Work with a team of 4 to put-on large-scale events.

Robojackets | Member

August 2023 – Present

- Machine Manufacturing on metal lathe and mill
- Ideated and contributed to the design process of a battle bot through active participation in brainstorming sessions and innovative idea generation.
- Applied engineering principles to calculate and analyze physical properties such as gyroscopic forces and bite force, improving weapon system functionality and performance.