Jonathan M. Fisher

310 Haynie Rd Moreland, Ga 30259 | (770) 502-5789 | jfisher78@gatech.edu | U.S. Citizen | **Website:**

Objective

Motivated Mechanical Engineering major who loves to learn and works hard to complete difficult tasks. I have hands-on experience in robotics, manufacturing, and automation systems. Skilled in machining, pneumatics, PCB design, and programming. Strong background in leadership and technical instruction through the Invention Studio and engineering internships. Seeking a Summer 2026 internship or Co-op in robotics engineering, automation, manufacturing engineering or mechanical systems design.

Education

Georgia Institute of Technology| Atlanta, GA *August 2023 – Present*
Pursuing BS in Mechanical Engineering, GPA 3.77 Expected Graduation, December 2026

Skills

Mechanical & Prototyping: Machining (lathe, manual mill, band saw), problem solving, pneumatics, plumbing, soldering, wiring, PCB design, 3D printing (FDM & SLA), waterjet, laser cutting, woodworking, hand/power tools

Software & CAD: SolidWorks, Autodesk Inventor, KiCAD, Arduino IDE, Automation Direct Ladder Logic, Jands Vista, ProPresenter

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

Hardware & Electronics: Arduino microcontrollers, electrical wiring, custom PCB fabrication, circuit design

Communication & Leadership: Technical instruction, team leadership/ management , public speaking, customer service, workshop training

Languages: English (fluent), German (conversational)

Experience

Thermopore Material Company | Newnan, Ga *May 2024 – August 2024, May 2025 – August 2025*
Engineering Co-op

- Machined parts and assembled machines from design drawings, incorporating manufacturing and design considerations.
- Gained hands-on experience with pneumatics, plumbing, field wiring, and PLC programming.
- Designed in SolidWorks and fabricated systems for a vibratory part escapement using 3D printing (FDM & SLA).
- Created a custom program to process McMaster-Carr CAD bolt files, reducing design engineer setup time by ~2 minutes per fastener. An estimated 80% increase in productively
- Developed a BOM sorting program that cut order prep and organization for a new machine from 2 days down to a few hours.
- Performed electrical wiring, soldering, and cable routing across multiple projects, contributing to automation improvements.

Invention Studio (Georgia Tech) | Atlanta, GA
Director of Programming, Peer Instructor, Shift Manager, Master of Electrical Tool *August 2023 – Present*

- Promoted to Master of Electrical Tools, leading tool training, mentoring apprentices, and assisting students with advanced electrical projects.
- Serve as a leader of the makerspace, guiding technical decisions and contributing to operational improvements.
- Orchestrated and taught project-based workshops, emphasizing hands-on engineering education and tool safety.

Projects

Battery Powered RC Hovercraft Spring 2024

- Designed and built a battery-powered RC hovercraft, integrating custom electronics, motor control, and lightweight structures for stable remote operation.

6x6x6 LED Cube with Custom PCB *Summer 2025*

- Designed and fabricated a custom PCB for a multiplexed LED cube display.
- Integrated soldering, wiring, circuit design, and programming to create a functional 3D light array.

Inverse Kinematics-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

Crossroads Church | *Production Director / Production* *August 2019 – August 2025*

- Elevated the quality of worship experiences through innovative lighting designs and audio mixing for over 200 attendees.
- Led a production team of 4, fostering a collaborative and efficient work environment.
- Showcased a multifaceted skill set encompassing lighting programming, audio engineering, and leadership.

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.