

Michael Lu

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Education

North Carolina School of Science and Mathematics - Morganton, NC

August 2025 - Present

GPA: 4.0 UW & 5.0 W

Relevant Courses: Machine Learning & Robotics Design

Myers Park High School - Charlotte, NC

August 2023 - June 2025

GPA: 4.0 UW & 4.6 W

Experience & Projects

Drone Research

Morganton, NC

Personal Project

Feb 2026 – Present

- Designing an autonomous drone for mapping out terrain with Gaussian Splatting and LiDAR. Using ROS2 for the control system and Fusion for the Generative Design Frame.

Accenture

Charlotte, NC

Technology Consultant Intern

July 2025 – August 2025

- Built a RAG-based customer service chatbot, integrating Duke Energy's knowledge base to automate client support inquiries
- Developed an AI customer service rollout strategy and presented an implementation plan to Duke Energy stakeholders

Leadership & Activities

NCCSM Morganton Robotics

Morganton, NC

Lead Engineer

September 2025 – Present

- Mechanical for Aperture Science (FTC) and Electrical & Mechanical for Kraken MATE Robotics (400+ Hours)
- Designed the 2025-2026 Robot with a shooter, intake, and indexer in OnShape and manufactured parts with GlowForge, FabLight, and 3D Printers.
- Deployed the RP2040 microcontroller and Jetson Orin Nano to improve the pulse width of thrusters, 4+ sensors, drew schematics, and designed PCBs for the underwater research ROV used to map areas impacted by Hurricane Helene.

Myers Park & NCCSM TSA Chapter

Charlotte, NC

Founder & President

September 2025 – Present

- Raised \$2000+ for state competition and managed a chapter of 30+ members.
- 3rd Place in State Level for Tech Bowl, Virtual Reality Simulation, and Manufacturing Prototype.

CMSCA FIRST Tech Challenge (FTC) Robotics

Charlotte, NC

Co-Founder

September 2024

- Teach students the fabrication, programming, and design principles of robots and raised 2000\$ for robot assembly
- FIRST Tech Challenge Regional Competition - Captain Finalist 2nd Place

Myers Park Chess Club & Math Club

Charlotte, NC

Vice President

September 2024 – June 2025

- 2nd Place Team & 6th Place Individual of the "Grades 9-12" section in the NC State Chess Championship (2024)
- Top 10 Atomic Chess on [Lichess.org](https://lichess.org) (2023)
- 51st individual nationally in Spring Math Madness Competition (2025)