

## Ethan Morlu

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Seeking a position on the RHA exec board where I can bring my drive and strong work ethic to give back to residents.

### EDUCATION

**Georgia Institute of Technology**, Atlanta, GA (GPA 4.0) Aug 2022-May 2026 (anticipated)

- Candidate for Bachelor of Science in Mechanical Engineering
- Provost Scholar

**Woodbridge Senior High School**, Woodbridge, VA (GPA 4.544/4.0) Aug 2018-June 2022

### SKILLS

**Experience:** Project Management, Leadership, Communication, Presentation, Design, Critical Thinking, Problem-solving  
**Design:** Orthographic Hand Sketching, Computer Aided Design (CAD), 2D and 3D Modeling and Assemblies, Renderings  
**Software:** Inventor, Revit, Onshape, SolidWorks, Tinker CAD, Multisim, MATLAB, V-Python, Arduino, Power BI  
**Instrumentation:** Drill, 3D Printer Laser Engraver, Bandsaw, Soldering, Pipetting, Titration, Spectrometry, Calorimetry

### EXPERIENCE

**DuPont, Automation and Process Controls Intern**, Richmond, VA May 2024-August 2024

- Built two Power BI dashboards to help with evaluating site Meeting Effectiveness and Chemical Approvals.
- Moved alarms from a legacy operating system to a new system, employing a Power Automate flow with OCR, reviewing and revising alarms to be more specific.
- Moved logic diagrams from legacy system to new operating system and removed vestigial and irrelevant logic.
- Supported Power Apps testing

**Stantec, Mechanical Engineering Intern**, Arlington, VA June 2023-Aug 2023

- Worked on projects involving HVAC, plumbing, wastewater design and fire protection systems. Conducted site visits.

**Georgia Institute of Technology, Excel Academics Tutor** Atlanta, GA Oct 2022-Dec 2022

- Prepared study materials for a student with mental disabilities, modified tests, and helped student master class material.

#### Professional Affiliations:

- Tau Beta Pi Engineering Honor Society, Pi Tau Sigma Mechanical Engineering Honor Society Nov 2023-Present
- American Society of Mechanical Engineers, National Society of Black Engineers, NACME May 2022-Present

### PROJECTS

**Creative Decisions and Design Team Project**, Atlanta, GA Sep 2023-Nov 2023

As part of a team, designed, fabricated, and programmed a robot using QFD and CAD to complete five tasks for a final competition.

**Stantec Summer Internship Project**, Arlington, VA June 2023-Aug 2023

Designed the HVAC, plumbing, & fire protection systems for a coastal resiliency hub, working with interns and professionals.

**Introduction to Engineering Design Team Project**, Atlanta, GA Fall 2022

Worked as a team to design and virtually prototype a flying firefighting drone using drafting and CAD. Wrote presentation & report.

**Project Lead the Way Engineering Program Senior Capstone Team Project**, Woodbridge VA Aug 2021-June 2022

Collaboratively designed and prototyped the electrical and mechanical components of a foot pedal-operated, sheet-music turner.

**Eagle Scout Service Project**, Woodbridge VA June 2021-Aug 2021

Designed, fundraised, planned, and led volunteers in building four garden beds and a rain barrel stand for the school Ecology Club.

### LEADERSHIP

**Pi Tau Sigma Mechanical Engineering Honor Society, President**, Atlanta, GA Nov 2023-Present

- Involved in planning events for the 2025 semesters such as the ME Research Fair and donut giveaways.

**Residence Hall Association Community Council, Executive President**, Atlanta, GA Aug 2023-Present

- **Executive President** (Apr 2024-Present): Determine organizational goals and oversee operations for executive branch.
- **Finance Coordinator and Auditor** (Aug 2023-Jun 2024): Plan and support resident events. Oversight of dorm budget allocations and campus wide reimbursements.

**Wrestling Club @ Georgia Tech, Treasurer and Founding Member**, Atlanta, GA Apr 2023-Present

- Manage finances, create the budget, apply for university funding, make presentations, support club onboarding process.

**Boy Scouts of America, Eagle Scout and Adult Leader**, Woodbridge, VA Aug 2015-Present

- **Eagle Scout** (Oct. 2021-Present): Accomplished after seven years of continuous and progressive leadership responsibilities in various positions. Managed the troop during the pandemic with transitions to virtual and back to in-person meetings.
- **Assistant Scoutmaster** (May 2022-Present): Mentor scouts; support Scoutmaster with troop operations.

**Battle At the Bridge Wrestling Tournament, Co-Event Manager**, Woodbridge, VA Dec 2022 & 2023

- Managed logistics for two-day tournament. Organized an efficient system to weigh in 800+ wrestlers with 50+ teams.
- Oversaw scoring tables, managed volunteers, supported referees and coaches, organized medal ceremonies, etc.

**Woodbridge Senior High School Wrestling, Alumni Coach and District Champion**, Woodbridge, VA Dec 2018-Aug 2023

**Immanuel Anglican Church, Acolyte, Worship Band, Event Leader**, Woodbridge, VA Nov 2015-Aug 2023