

## Nathan Morlu

Atlanta, GA 30332 · [nathanmorlu@gmail.com](mailto:nathanmorlu@gmail.com) · 703-565-8889 [www.linkedin.com/in/nathan-morlu-6236a8266](http://www.linkedin.com/in/nathan-morlu-6236a8266)

### Education

- 
- Georgia Institute of Technology**, Atlanta GA Aug 2022 – May 2026 (expected)
- Candidate for Bachelor of Science in Mechanical Engineering
  - GPA 4.0/4.0
  - Provost Scholar
- Woodbridge Senior High School**, Woodbridge, VA Aug 2018 – June 2022
- Advanced High School Diploma
  - GPA 4.544/4.0

### Experience

- 
- Architectural and Mechanical Engineering Internship, Stantec, Arlington, VA** June 2023 – Aug 2023
- Spent 10 weeks over the summer working on water management facilities, sustainable commercial properties, with general mechanical engineering, and designing a sustainable Coastal Resilience Hub in West Haven Ct.
- Summer Analyst Internship, BlackRock, Atlanta, GA** June 2024 – Aug 2024
- Spent 9 weeks over the summer working on developing and maintaining a server within Aladdin Data. Developed a command building application in java to remove hardcoding and make the server more configurable.

### Skills

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**Experience** - Project Management, Leadership, Communication, Public speaking, Presentation, Limited Working Spanish  
**Computer Aided Design** - Orthographic Hand Sketching, 2D and 3D Modeling and Assemblies, Animations and Renderings  
**Software** - Solidworks, Inventor, Onshape, Revit, Multisim, Microsoft Office Suite, Windows XI, Arduino  
**Instrumentation** - Drill, 3D Printer, Hand Saw, Electric Saw, Drill Saw  
**Professional Affiliations** – National Society of Black Engineers, American Society of Mechanical Engineers

### Projects

- 
- ME 2110 Design Project**, Atlanta, GA Sept 2023 – Nov 2023
- Designed a robot to successfully fulfill competition tasks and presented product to a board of judges.
- Port Sanitary Storage Tank and Pump Station Project**, Fairfax, VA June 2023 – Aug 2023
- Created a tool to efficiently calculate the pump size needed for future use in wastewater convention projects.
- Stantec Intern Design Project**, Arlington, VA
- Worked in a team of four interns to design the HVAC and plumbing systems in a Coastal Resilience Hub.
  - Investigated sustainable design options and integration of systems in architectural design.
- ME 1670 Projects**, Atlanta, GA Sept 2022 – Dec 2022
- Individual Project - Produced a functioning prototype of an item holder combined with a tree.
  - Team Project - Designed a sustainable all in one office helper.
- Project Lead the Way Senior Design Project**, Woodbridge VA Aug 2021 – June 2022
- Produced a trash grabber and hiking pole hybrid.
    - Collaborated with two peers to design a functioning product prototype, working through limitations on time.
- Eagle Scout Service Project**, Woodbridge VA June 2021 – Aug 2021
- Led construction of a gravel path for the Eagle Scout Service Project requirement.
    - Designed, proposed, and built a 60-foot path to the Ecology Club's Garden beds at Lake Ridge Middle School

### Leadership

- 
- Georgia Tech Wrestling Club - Senior Executive President**, Atlanta, GA March 2023 – Present
- Founded and Chartered Wrestling Club in Spring 2023 - Create practice schedules, competition schedules and coach practices.
  - Handle club outreach events, practice scheduling, and communication with sponsors and the school.
- Georgia Tech Residence Hall Association**, Atlanta, GA Sept 2023 - Present
- Oversaw and managed other members of the Community Council, planned meeting agendas, and held community events.
  - Elected to the position of Director of Development and is planning trainings, social events, and establishing committees.
- Pi Tau Sigma: National Mechanical Engineering Honor Society**, Atlanta, GA April 2024 - Present
- Served as the Vice President of Membership and oversaw and directed initiate programming.
  - Serves as the Treasurer and oversees the society's finances.
- Boy Scouts of America** Aug 2015 - Present
- Eagle Scout & Assistant Scoutmaster** Jan. 2022-Present
- Highest Attainable Rank in Scouting achieved through completing nine requirements while Life Rank.
  - Led troop through various leadership roles, providing guidance and training to younger scouts and assisted troop through transition to virtual and then back to in person during the pandemic.
  - Support the Scoutmaster with youth development efforts and troop operations.
- Event Manager, Battle at the Bridge Wrestling Tournament**, Woodbridge, VA Dec – 2022, 2023, 2024
- Ran an all-day JV and Girls tournament, managing the head table, instructing score table workers and volunteers, making announcements, organizing the medal ceremony, and doing crowd control.
  - Revised and implemented an efficient weigh-in process for 800 wrestlers and 55 teams.