

Nathan Morlu

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Education

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- 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

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- 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.

Skills

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

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- ME 2110 Design Project**, Atlanta, GA Sept 2022 – Nov 2022
- 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 2022 – Aug 2022
- 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.
 - Worked with four peers and followed design process to design and animate a sustainable product in SolidWorks
- 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
- 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

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- Georgia Tech Wrestling Club - Senior Executive President**, Atlanta, GA March 2023 – Present
- Founded and Chartered Wrestling Club in Spring 2023 - Create practice schedules and coach practices.
 - Handle club outreach events, practice scheduling, and communication with sponsors and the school.
- Georgia Tech Resident Hall Association Community Council - Meetings Coordinator**, Atlanta, GA Sept 2023 - Present
- Coordinate with the school to manage the money provided to the Residence Hall: Nelson Shell.
 - Oversee and manage other members of the Community Council and plan meeting agendas.
- Boy Scouts of America** Aug 2015 - Present
- Eagle Scout** Jan. 20, 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.
- Assistant Scoutmaster** June 2022 - Present
- Support the Scoutmaster with youth development efforts and troop operations.
- Woodbridge Senior High School Wrestling**, Woodbridge, VA Dec 2018 – Aug 2023
- Served as Alumni Coach during summer club practice.
- Immanuel Anglican Church**, Woodbridge, VA 2015 – Aug 2023
- Served in various volunteer ministries including the worship band, community events, and altar service.
- Event Manager, Battle at the Bridge Wrestling Tournament**, Woodbridge, VA Dec – 2022, 2023
- Ran an all-day JV 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.