

Austin Dolan

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Education

North Carolina State University

B.S. Electrical Engineering and Computer Engineering, GPA: 3.68

Expected Dec 2026

Technical Skills

- C/C++, Git/Github, MkDocs, Verilog, Qiskit
- Microsoft Office and Google Workspace proficient
- KiCad EDA, Fusion360, Onshape, Vectric VCarve
- Soldering skills, wiring, breadboard, multimeter, and oscilloscope proficiency
- CNC milling, machining skills, and mechanical assembly

Leadership Experience

Techno Wolves FRC Team

2019-Present

Team member from August 2019 - May 2022. Vice Team Lead from May 2022 - May

2023. Mentor from May 2023 - Present

- Managed a team of 12-18 students in designing, assembling, and testing a robot over 6+ weeks every January.
- Utilized engineering design methodologies such as prototyping, CAD, and power distribution within given constraints to solve an open-ended problem.
- Balanced the team's budget and resources to address conflicting needs within the team or subteams.

Optum Health Technology

June-August 2022

High School Intern

- Collaborated on a team of 5 interns to develop a viable business model for telehealth.
- Researched market trends and patterns to understand the industry better.
- Submitted 2-3 deliverables weekly for 2 months.

Activities

Aquapack Robotics Club

August 2023-Present

Team member on Electrical subteam

- Collaborating with a team of ~40 other students across engineering and business disciplines to develop and operate an autonomous underwater vehicle.
- Redesigned schematics and 4-layer PCB for acoustics/sonar systems on an existing robot.
- Developing new PCB and system architectural designs across three power domains utilizing I2C buses.

Quantum Computing Club

August 2023-Present

- Learned about Quantum Computing and its applications in cryptography and networking.
- Worked with professionals in both academia and industry
- Programmed in Qiskit to run on quantum computers through IBM.