

Alexander Wong

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I am a first-year mechanical engineering student at the University of Connecticut with an interest in automotive and aerospace applications. I am currently a member of the Formula Society of Automotive Engineers (Formula SAE) team, working on improving the aerodynamics of our competition vehicle.

Professional Experience

Waterfront Lifeguard

Winding Trails, Farmington, CT

May 2023 – September 2023

- Utilized problem-solving skills to coordinate efficient responses during emergencies
- Worked directly with patrons to assist with any issues or inquiries
- Applied critical thinking skills to make quick decisions
- Communicated effectively with both team members and patrons to ensure safety and enforce rules

Education

Bachelor of Science in Mechanical Engineering

University of Connecticut, Storrs, CT

2024-2028 (Projected)

Relevant Courses (current and previous):

- Calculus I & II, AP Physics C, Engineering Design/Development, Principles of Engineering, Digital Electronics, Automotive Technology, General Chemistry, Professional Communications, AP Computer Science A

Organizations & Projects

University of Connecticut

Formula SAE

2024-2025

- Member of the Formula SAE team, contributing to the design and development of high-performance vehicles for international collegiate competitions
- Working on vehicle aerodynamics

Farmington High School, CT

Holonomic Swerve Drive Robot

2023-2024

- Worked as part of a team to design and construct a swerve drive robot capable of manual navigation and obstacle detection facilitated through lidar, cameras, and Apriltag technology
- Received funding from the Toshiba corporation and Ensign-Bickford Aerospace & Defense

Relevant Skills

- CAD Software (Solidworks, OnShape)
- Engineering Simulation Software (Ansys)
- MatLab
- Computer Programming (Python, Java, HTML)