

Miles Lucatorto

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Summary

Motivated mechanical engineering student with a strong foundation in design, safety, and teamwork. Leadership and technical experience developed through lifeguarding, scouting instruction, and robotics. Active member of the University of Connecticut Formula SAE Aerodynamics Subsystem, contributing to engineering projects that emphasize innovation and performance. Skilled in CAD software and collaboration, with a record of adapting to challenges and delivering results in technical and team environments.

Skills

- AutoCAD
- SketchUp
- SolidWorks
- Microsoft Excel
- Microsoft Office
- Architectural drawing
- Wide Format Printing
- CPR & First Aid Certified
- Leadership
- Team Collaboration
- Communication
- First Aid

Work Experience

**Floral Park Recreation Center | Floral Park, USA Nassau County Certified Lifeguard
(04/2024 - Current)**

- Ensured water safety by monitoring pool areas and enforcing rules
- Performed emergency rescues and administered first aid when necessary
- Maintained pool cleanliness and conducted regular safety equipment checks

Theodore Roosevelt Council, Scouting America | Livingston Manor, USA Health and Safety Merit Badge Counselor (05/2023 - 08/2023)

- Instructed scouts on health and safety principles, guiding them through badge requirements
- Organized and led interactive workshops on first aid, emergency preparedness, and public health

Education

University of Connecticut | Storrs, CT

Bachelor of Science in Mechanical Engineering
Aug 2025 - May 2029

Floral Park Memorial High School | Floral Park, NY

Sep 2019 - June 2025

Certifications & Awards

- Architectural Design 1 Career Certification, YouScience - 05/2025
- American Red Cross Lifeguard Certificate, AmRC - 05/2025

Awards

- Community Service and Leadership Award, Town of North Hempstead - 06/2025
- Eagle Scout Candidate, Boy Scouts of America (application submitted, 2025)

Projects & Activities

- Formula SAE - Aerodynamics Subsystem Member, University of Connecticut (08/2025 - Present):

Collaborate with engineering peers to design and optimize aerodynamic components for a student-built race car, contribute to analysis and testing of subsystem performance to support overall vehicle design

- FIRST Robotics - Field Staff Volunteer (09/2023 - 04/2025):

Assisted with field setup, teardown, and event execution during robotics competitions, supported teams and staff in running large-scale regional qualifier events

- SkillsUSA - Fundraising Assistant (11/2024 - 8/2025):

Raised over \$10,000 as part of a team to fund student competitions and team travel, coordinated daily sales events and contributed to sending teams to state and national contests