

EMILY MCCOY
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Education

The University of Alabama - Tuscaloosa, AL
Bachelor of Science in Aerospace Engineering
3.48/4.0

May 2026

Minor: Astronomy, Philosophy
Alabama Astrobotics Systems Engineering Team Junior Member
AIAA member
Society of Women Engineers Member

Centereach High School - Centereach, NY
Regents Diploma Advanced Designation with Honors
4.0/4.0

June 2022

Mastery in Math and Science
Member of Tri-Music Honor Society, French Honor Society
Treasurer of Thespians Honor Society, National Honor Society

Experience

Lifeguard & Swim Instructor, Patchogue YMCA, Patchogue, NY Jun 2019 - Present

- Create and conduct fun, engaging lessons for students to learn water safety and swimming skills, determine progress of swimmers and provide advanced instruction based on each swimmer's individual abilities
- Took a leadership position in a marketing campaign during COVID-19 to keep members engaged, provide customer service to swimmers, family members, and facility visitors
- Monitor pool and surrounding deck to observe occupants and determine any possible need for assistance, respond to emergencies with rescue techniques, basic first aid and CPR

Head Soccer Referee, Lake Grove-Newfield Soccer Club, Selden, NY Sep 2017 - Jun 2019

- Memorized rules for multiple age groups and taught fellow referees, players, and parents these rules, officiated and observed games to prevent conflicts and assisted coworkers in ceasing growing conflicts
- Volunteered time to set up and check fields and equipment before games, created and reviewed game day schedules and handled all last-minute changes, recorded game scores
- Maintained a healthy and productive working relationship with coworkers, management, and players

Skills

English (native), French (basic), ASL (basic)
Microsoft Office Suite (Word, PowerPoint, and Excel)
Proficient in Python and SolidWorks

Awards and Acknowledgements

- AP Scholar with Distinction Award Recipient 2022
- AP Scholar with Honor Award Recipient 2021
- Girl Scouts Silver Award Recipient 2019
- Captain, Middle Country Rage Soccer Team 2020-2022
- Featured Presenter, Youth Climate Summit at Stony Brook University
- Laverne Noyes Scholarship from the University of Alabama
- Engineering Scholarship from the University of Alabama
- Foundations in Excellence Scholarship from the University of Alabama