

Andrew Nocilly

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OBJECTIVE

Seeking to expand my engineering skillset and contribute to projects while learning from those around me

EDUCATION

Cornell University, College of Engineering, Ithaca, NY Expected May 2028
Bachelor of Arts, Mechanical Engineering (intended), Aerospace Engineering Minor
GPA: 3.990

Relevant courses: Materials: The Future of Energy, Introduction to MATLAB

PROFESSIONAL EXPERIENCE

EndoGlow, Rochester, NY Summer 2024

- Independent project work using CAD to design and 3D print items for the medical design company

LEADERSHIP EXPERIENCE

Ronald McDonald Charities of CNY, Syracuse, NY, *Youth Advisory Board President* 2023 – 2024

- Led monthly meetings, coordinated and guided volunteer and fundraising events including pajama and toy drives, organized homemade dinners for residents
- Member of the board from 2020-2023, participated in meal prep, housekeeping, and gardening to maintain the residence

RESEARCH EXPERIENCE

Autonomous Unmanned Systems Laboratory, Syracuse University Summer 2025

- Captured point cloud data from LIDAR sensor output, primarily using the Velodyne VLP-16
- Offline relative pose estimation between recorded frames using SVD, EVD, D-SVD, ICP, VPE, and other associated algorithms

Engineering Summer Academy, University of Pennsylvania Summer 2022

- Immersive program in nanotechnology including nanofabrication techniques (top-down, bottom-up, lithography, deposition, etching), quantum dots, microscale fluid mechanics, MEMS devices, gyroscopes, solar panels, electron microscopes (scanning and transmission), and cleanroom techniques
- Extensive research and presentations re: brain probes and restoration of vision to the visually impaired; quantum dot and microfluidic device production

CAMPUS INVOLVEMENT

American Cancer Society, Cornell University, *Food and Sponsorship Member* Aug 2024-Present

ADDITIONAL EXPERIENCE

USSF Referee, Western New York, *Soccer Referee* Mar 2020-Present
Jewish Community Center of Syracuse, Syracuse, New York, *Counselor* November 2023-Present

SPECIALIZED SKILLS

Programs: Java, Python, MATLAB, HTML/CSS, Excel
Languages: Spanish (intermediate), Mandarin (beginner)