

School Address

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Toby Coombs

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Home Address

297 Highfield Ln
Nutley, NJ 07110

Objective Leverage my manufacturing experience and aerospace knowledge to provide value to a company through the completion of a challenging internship.

Education**Rensselaer Polytechnic Institute (RPI), Troy, NY**

June 2026

B.S. Aeronautical Engineering

Aerodynamics, Aerospace Structures and Materials, Engineering Dynamics,
Modeling and Control Systems, Numerical Methods and Programming, Fluid Dynamics

Suffern Senior High School, Montebello, NY

June 2022

Experience**Shipwright**

Oct - Dec 2024

Khura Buri, Thailand

- Designed and manufactured hydrofoil for a motorboat. Applied my knowledge of fluid mechanics, and structural analysis to optimize design for project.
- Led a team of volunteers in the construction of a smaller sailboat. Successfully sailed said vessel on the Andaman Sea.
- Identified a crucial construction flaw in the restoration of a fifteen meter long, 35-year-old catamaran.

Introduction to Engineering Design

Fall 2023

Rensselaer Polytechnic Institute

- Collaborated with multi-disciplinary team of five students to design, budget, and fabricate a prototype PLA plastic recycling system.
- Developed a hopper for the system, which weighs out a given amount of plastic waste and releases the scrap at a constant rate.

Lifeguard

Summers 2020-2023

Saddle River Community Pool

- Effectively provided a safe and fun environment for up to 4,000 patrons daily along with providing first aid when needed. Often filled in for pool maintenance workers, learning the skills required to upkeep a pool throughout the summer.

Leadership**Facilities Manager, Alpha Chapter of Theta Xi**

Spring 2022

- Helped children with mental disabilities participate in athletics through Hi-5 Sports.

Volunteer Farm Restoration, Work Away

Sep - Oct 2024

- Aided in the restoration of several acres of farmland in Catalonia, Spain during a period of heavy flooding.

Skills

- Manufacturing, Python, Numerical Methods, *MATLAB, Siemens NX, Excell, Autodesk Fusion*