

**School Address**

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**Toby Coombs**

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**Home Address**

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

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**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 Programing, Fluid Dynamics

**Suffern Senior High School, Montebello, NY**

June 2022

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**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.

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**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.

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**Skills**

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