

Andrew J. Rollins

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Summary

Applied mathematics and aerospace engineering student focused on computational modeling, control systems, optimization, and data-driven analysis of physical systems. Current research includes CFD-based turbulence-model sensitivity, UUV controller design and optimization, and control-oriented spacecraft dynamics. Interested in applying numerical methods, scientific machine learning, and scalable computational tools to real-world engineering and research problems.

Education

Illinois Institute of Technology

Projected Graduation of May 2028

M.S. Mechanical and Aerospace Engineering - *Concentration in Fluid Dynamics*

B.S. Aerospace Engineering | B.S. Applied Mathematics - *Concentration in Applied Analysis*

Certifications

Security Clearance

May 2025

Secret Clearance - United States Department of Defense

The Council for Six Sigma Certification

October 2025

Lean Six Sigma - Yellow Belt Certification

Professional Experience

United States Navy Reserve, Chicago, IL

August 2023 –Present

Midshipman, Nuclear Surface Warfare Option

- Apply engineering discipline and systems-level problem-solving to technical and operational challenges in preparation for nuclear propulsion qualification.
- Lead cross-functional teams of midshipmen in structured training and evaluation environments emphasizing process improvement, accountability, and reliability.
- Maintain precision, documentation standards, and procedural compliance consistent with Navy nuclear and engineering program expectations.

Keating Sports Center

August 2024 - Present

Building Supervisor

- Oversee daily facility operations, ensuring safety, equipment functionality, and policy compliance across multiple activity spaces.
- Supervise and coordinate student staff, responding to facility issues and high-traffic situations with calm, decisive leadership.
- Implement process improvements to streamline scheduling, incident reporting, and customer service efficiency.

Seasonal: State of Maryland Department of Natural Resources

Seasonal 2022 - 2025

Interpreter/Contact Station Attendee

- Managed high-volume park entry operations and financial transactions in fast-paced, high-pressure environments while maintaining accuracy and professionalism in English and Spanish.
- Exercised sound judgment and composure in resolving visitor conflicts, emergencies, and unexpected situations.
- Trained and supervised new staff, fostering calm, efficient teamwork and consistent service quality during peak operating conditions.