

Eric Tobin

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Objective

Aerospace Engineer looking for entry level position in propulsion design/ testing–willing to relocate

Education

University of Illinois at Urbana-Champaign

Champaign-Urbana, IL

B.S. Aerospace Engineering

2012–2018

- Numerical Methods Elective
- Capstone Project: Aircraft System Design (Propulsion)
- Curriculum included freshman/ sophomore level electronics/ computing classes

Experience

Illinois Space Society (Student Organization)

Champaign, IL

Hybrid Rocket Engine Subteam Leader

2014–2018

Lead a team of 4-12 student engineers in creating a rocket engine propulsion system.

- Helped get project approved by organization
- Performed system sizing based on performance requirements and organizational needs
- Designed and prototyped engine components:
 - Cavitating Venturi Injectors
 - Parabolic de Laval Nozzle
 - Vehicle Integration Interface
- Completed Method of Characteristics and Computational Fluid Dynamics models of nozzle flow
- Designed and operated cold flow and static hot firing tests for design validation
 - Designed and constructed remote test control system
 - Wrote test and safety procedures
- Designed paraffin fuel grain high-pressure manufacturing process

Illinois Space Society (Student Organization)

Champaign, IL

NASA Student Launch Payload Subteam Leader

2013–2014

Created a detail design for a remote sensing electronics payload.

Independent Projects

Albuquerque, NM

Prototyped vacuum tube keyboard amplifier and simulated RISC-V compliant computer

2019–2020

Personal Information

- **Proficient:** Python, MATLAB; **Intermediate:** Rust; **Novice:** C/ C++, L^AT_EX, Arduino
- **Hobbies:** Tesla Coiling, Amateur Rocketry, Audio Electronics, and Cello
- Parents are career military; adaptable and used to working with new locations/ colleagues