

# Eric Tobin

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## Objective

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Aerospace Engineer looking for entry level position in propulsion systems design and testing.  
Willing to relocate immediately.

## Education

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### University of Illinois at Urbana-Champaign

*B.S. Aerospace Engineering*

**Champaign-Urbana, IL**

2012–2018

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

## Experience

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### Illinois Space Society (Student Organization)

*Hybrid Rocket Engine Subteam Leader*

**Champaign, IL**

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)

*NASA Student Launch Payload Subteam Leader*

**Champaign, IL**

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

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- **Proficient:** Python, MATLAB; **Intermediate:** Rust; **Novice:** C/ C++, L<sup>A</sup>T<sub>E</sub>X, Arduino
- **Hobbies:** Tesla Coiling, Amateur Rocketry, Audio Electronics, and Cello
- Adaptable and used to working with new locations/ colleagues; parents are career military