Eric Tobin

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Objective

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

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 Leval 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++, LaTeX, Arduino
- **Hobbies:** Tesla Coiling, Amateur Rocketry, Audio Electronics, and Cello
- Adaptable and used to working with new locations/colleagues; parents are career military