Eric Tobin

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Objective

Aerospace Engineer looking to continue designing and testing propulsion systems.

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)

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.

Programming Languages

Proficient: Python, MATLAB
Intermediate: Rust
Novice: C/C++, LaTeX

Hobbies

- Tesla Coiling, Amateur Rocketry