JORDAN MAYER

Hi. I'm Jordan, and I almost became a writer – but I decided to do this instead. I love space, I love being programming, and I love solving problems. My dream is to take all those passions and put them together to make the world a bit better.

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Current Address
2337 Willowbrook Dr
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West Lafayette, IN 47906

Permanent Address
17361 Turnbury Ct
Granger, IN 46530

TECHNICAL SKILLS

Experienced
Microsoft Office Suite (sans Access)
Microsoft Visual Studio
AutoCAD & Inventor
CATIA V5
MATLAB
C & C++
Java

Familiar
General Mission Analysis Tool (GMAT)
Systems Tool Kit (STK)
Microsoft Access
ARM Assembly
WPF/XAML
HTML/CSS
JavaScript
Mercurial
Node.JS
JQuery
Python
UNIX
SQL
Git
R

EDUCATION

Purdue University, West Lafayette, IN — **May 2020**
B.S. Aerospace Engineering — **Cumulative GPA: 3.91/4.0**
B.S. Computer Science
B.A. Philosophy

LEADERSHIP EXPERIENCE

President. **Purdue Sigma Gamma Tau**. Purdue University. May 2018 to Present
- Oversee all committees and events to ensure appropriate scheduling and preparation
- Act as primary representative to faculty, staff, and SGT National to foster positive relationships and reputation
- Initiate permanent improvements to organization including updated Constitution, more orderly elections, and more enjoyable initiation of new members

Supplemental Instruction Leader. **AAE 203, AAE 251** August to December 2018
Purdue University.
- Acted as first ever SI Leader for both AAE 203 and AAE 251
- Organized and facilitated collaborative learning sessions to improve students' understanding of and engagement with basic kinematics and statics (AAE 203) and fundamental aerospace design concepts (AAE 251)
- Held weekly office hours to discuss homework problems, exam preparation, and key course concepts with struggling students

Photography Team Lead. **SEDS/AIAA HAB**. October 2016 to August 2017
Purdue University.
- Led team of four students in designing original high-altitude balloon photography system
- Oversaw design of payload delivery system to ensure optimal photograph conditions
- Performed cost-benefit analysis to determine optimal camera system
- Achieved peak altitude of over 123,000 ft

TECHNICAL EXPERIENCE

Engineering Intern. **Missile & Aviation Systems**. Dynetics, Inc. May to August 2018
- Utilized Microsoft Visual Studio to develop clean, modern trajectory simulation software for unmanned aircraft
- Created, removed, and modified over 130,000 lines of code, primarily in C++, C#, and WPF
- Trained machine learning models in Python to provide real-time situational awareness

Orbital Specialist. **SEDS/SSPI Satellite Competition**. April to November 2017
Purdue University.
- Worked with team of six Purdue students to create design document for communications system to support hypothetical lunar base
- Researched potential orbital layouts to determine optimal arrangement of satellites
- Designed frozen elliptical orbital architecture to ensure stable, reliable network

Engineering Co-op/Intern. **Lafayette Engine Facility**. GE Aviation. May to August 2017
- Provided daily support to Maintenance, Repair, and Overhaul operations on LEAP 1A and 1B turbofan engines
- Designed custom tools and storage pallets using AutoCAD and Inventor
- Worked in team-centered, self-starting environment with little direct supervision

Aeromechanics Team Member. **Purdue Aerial Robotics Team: IEEE**. Purdue University. August 2016 to April 2017
- Performed CATIA modeling of original UAV to compete in AUVSI SUAS Competition
- Focused on modeling of central pod to house camera, controls, and air speed sensor
- Manufactured aircraft components using foam, carbon fiber, and epoxy

HOBBIES AND INTERESTS

Playing, running, and writing for Dungeons & Dragons campaigns
Baking cakes, cookies, and other treats
Constantly listening to podcasts