

# Bryce Egley

Bachelor of Science in Aeronautical and Aerospace Engineering  
May 2017, Purdue University, West Lafayette, IN

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Portfolio: [apertureengineering.com/portfolio](http://apertureengineering.com/portfolio)

Github: [github.com/Mistweaver](https://github.com/Mistweaver)

LinkedIn:

## Work Experience

### Web Developer

07/2016 - Current

Office of the Dean of Engineering  
Purdue University, West Lafayette, IN

Worked in tandem with various university programs like EPICS and the Global Engineering Program to develop modern web pages and applications featured on the primary engineering sites for the college.

### Software Developer

01/2017 - Current

Graduate Research Team  
Purdue University, West Lafayette, IN

Worked with graduate students in aeronautical and aerospace engineering to develop applications for data acquisition and analysis.

### Web Developer

05/2016 - 08/2016

CharacterInventory.org  
Purdue University, West Lafayette, IN

Redesigned front end pages/user interface, added mobile compatibility and additional database work for startup website.

### Web Developer

05/2014-10/2014

Libraries IT Department  
Purdue University, West Lafayette, IN

Updated backend from Adobe ColdFusion to PHP for server migration. Redesigned webpages to meet Purdue design patterns.

### Social Media Director

01/2015 - 01/2016

Purdue University Men's Rugby Club  
Purdue University, West Lafayette, IN

Rebuilt team's webpage from scratch and managed/expanded social media presence. Worked with D1A rugby to update statistics, report results, upload film.

### Internet Writer

2011 - Current

Various Publications

Freelance sports/humor writer with several articles published in various sites/newspapers.

## Miscellaneous

6 years Spanish | 1 semester Italian |  
Semester study of aquaponics | Robotics hobbyist

## Notable Software/Engineering Projects

### Aerial Robotic Optical Identification System

Developed alpha version of lightweight embedded system that utilized computer vision and various sensors to provide sense-and-avoid capabilities to a custom-designed drone.

### Runway Incursion GUI

Worked with graduate researchers at Purdue university to develop visual application for air traffic controllers to report runway incursions.

### Super Mariota Android Game

Side-scrolling platformer for Android operating systems with custom designed graphics/artwork.

## Skills and Areas of Focus

- Knowledgeable in multiple programming languages, including C, Python, Java, MATLAB
- Specialized in dynamics and control of aerospace systems with a minor concentration in aerodynamics.
- Understanding of finite element analysis, Kalman filtering
- Proficient front end development (HTML, CSS, Javascript). Familiar with AngularJS, ReactJS
- Experienced with back end development with relational databases (PHP, MySQL, SQLite, Adobe ColdFusion)
- Experienced with Zope web application server
- Familiar with Java applications that utilize OpenGL
- Familiar with ANSYS Fluent, CAD modeling
- Experience with computer vision libraries (OpenCV)
- Familiar with Windows, Linux, and Android operating systems
- Familiar with Adobe Photoshop, InDesign