# Zhanpeng "ZP" Yang

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**OBJECTIVE:**

Passionate about aviation and aerospace technology and computer science. Currently looking for internships related to aeronautical, mechanical or software engineering over the summer.

**EDUCATION:**

**Purdue University**                                                    West Lafayette, IN; 2016 – present

**B.S in Aerospace and Astronautical Engineering.**                  Expected to graduate in 2020

Minor in Computer Science.                                              Current GPA: 3.85/4.00.

Dean's List on 2017 and 2018.

**ENGINEERING EXPERIENCE:**

**Purdue Lunabotics Team** - Wheels Design Team Member                           Fall 2016

- Designed new wheels in Adobe Inventor for the lunar excavation robot that prevent it from slipping in the regolith and accumulating foreign particles in the wheels.
- Designed testing rigs for the new wheels to prove our concept and conserve our budget.

**Purdue AIAA Ornithopter Team**                                                Fall 2017

- Researched and designed high end hobby ornithopter UAV in NX and conducted FEA to analyze structural stress loading to achieve optimal weight.
- Research and develop twisted string actuator for the ornithopter using 3D printing and Arduino.

**PurdueVTOL -** Propulsion Team                                               Spring 2018

- Calculated and sized propulsion system for a vertical takeoff and landing(VTOL) bicopter that we are currently developing.
- Lead a group to model the rotor cyclic of the dual ducted fans propulsion system in SolidWorks.
- Drafted propulsion technical report and assessed the weakness of our vehicle.

**PROJECTS:**

**Personal Website:**  Developed a responsive personal website using jQuery library and Bootstrap framework. https://zp-yang.github.io/personal_web/

**Android Game:** Developed a Black Box game in Android Studio that lets user to guess location of balls from the laser they fired.

**SKILLS:**

**CAD Package:** Autodesk Inventor, CATIA V5, SolidW orks, NX.

**Programming Language:** C, Java, JavaScript/HTML/CSS, MATLAB.

**Language:** Native Chinese, Fluent English, Basic Japanese.

**INTERESTS:** Snowboarding, Sculpting in ZBrush and with clay, model kit building, and video games.