

Johnathan Corbin

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Objective

To obtain a summer internship in an engineering field, with special interest in Aerospace engineering.

Education

Rensselaer Polytechnic Institute (RPI), Troy, NY

Bachelor of Science, Aeronautical Engineering

Concentration: Space Flight

May 2020

GPA: 3.63 / 4.00

Internships / Research

Synesis7

Summer 2017 & Summer 2018

- Interned as a data services specialist handling data analysis, data improvements, graphics conversion, XML data modeling and structuring, and QA processes for data updating and sustainment.
- Worked closely with the Presidential Helicopter programs (VH/UH-60 and S92/VH-92A) and NAVAIR programs (MH-60, MH-53, and C-130).

Center for Automation Technologies and Systems, RPI

Spring 2018 - Present

- Research involving the design and manufacturing of a system to autonomously assemble large scale wind turbine blades.
- Gained experience with CAD, machining, and robotic arms such as those from ABB.

Professional Development

Rock Raiders (RPI's University Rover Challenge Team)

2017 – Present

- Responsible for the design and manufacturing of a rover chassis and a robotic arm with an end effector capable of lifting rocks or typing on keyboards.
- Gained experience working closely with teammates on a complex system involving large amounts of coordination and design consideration to provide a viable rover.

RPI Drone Club

2017 – Present

- Helped found a club to build and fly drones. Competed in a national championship race at Purdue in spring of 2018. Have since built a variety of mini-quadrotors.

Introduction to Engineering Design

Spring 2018

- Member of a 5-person team that designed, constructed, and tested an autonomous floor scrubbing robot.
- Directly responsible for writing code, wiring, and building the system to deliver cleaning fluid streams.

Science National Honor Society President

2016

Relevant Coursework

Aerospace Structures and Materials

Fall 2018

- Beam and membrane structures under shear, bending, and torsional loads. Introduction to materials used in aerospace vehicles including metals, ceramics, and composites with special emphasis on fiber-reinforced composites.

Aerodynamics I

Fall 2018

- The fundamental principles of fluid dynamics, theory of inviscid incompressible flow, thin airfoils, high aspect ratio wings, delta wings, vortex, panel and vortex lattice methods, subsonic compressible small-disturbance theory, transonic flow.

Skills

Applications: CAD (Solidworks, Inventor, NX), Maple, Matlab, Minitab, Microsoft Office (Word, Excel, Outlook, Powerpoint), Oxygen XML Editor

Programming Languages: HTML, XML, C++, Matlab, and some Java

Skills: Machining, manufacturing, Arduino, Raspberry Pi, 3D printing, and engineering design

Honors / Awards

- Dean's Honor List, RPI
- Valedictorian of Class of 2016, Butte High School
- Eagle Scout, Boy Scouts of America Troop 1608