

# Justin Pullman

Aerospace Engineering Major

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## EXPERIENCE

### Peoria Academy, Peoria IL — FLL Coach

August 2019 - December 2019

Managed 4th through 8th grade students as they worked as a team to design, build, and compete in a robotics competition.

- Taught the design process
- Encouraged critical thinking
- Facilitated brainstorming events
- Taught time management and task completion skills

### Caterpillar, Peoria IL — Natural Gas Mechatronics Intern

June 2018 - August 2018

- Ran engine model test configurations
- Problem solved engine control modules
- Learned how engine models were developed by working with industry engineers
- Tabulated data
- Worked on a diagnostic device for data collection

## EDUCATION

### Iowa State University, Ames IA — Aerospace Engineering Major

- Graduation: December 2023
- GPA: 3.25

### Dunlap High School, Dunlap IL August 2015 - May 2019

## EXTRACURRICULAR

### ARC (Autonomous Robotics Club) — Founding Member

- Designed a competition ready robot
- Lead design reviews and planned task breakdown
- Developed a virtual robot using Gazebo and ROS2 (Robot Operating System)

## SKILLS & ABILITIES

### Leadership — 4 years in leadership roles through FIRST Robotics

- Risk management
- Teaching safety protocols
- Lead design meetings and reviews
- Facilitated round table discussions
- Task delegation
- Time management
- Conflict resolution
- Facilitated communication between departments

### Various Skills — I have developed various skills through active experiences

- 7 years experience with robotic systems
- Lead the design and fabrication of a new drive system
- Fabrication using 3D printing, CNC Mills, and various other tools
- Program in Python, Matlab, C, and C++
- Arduino and Raspberry pi
- Linux, Robot Operating System, and Gazebo
- CAD using Autodesk Inventor, Solidworks, Autodesk Autocad, and Ansys