Justin Pullman

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Education

Iowa State University – Bachelor of Science in Aerospace Engineering

Experience

Mechanical Engineer, Loveland Creatorspace - Loveland, CO Aug 2024 – Current

- Designed, prototyped, and developed a custom remote control from scratch, including designing the casing, programming the microprocessor, and ensuring communication with the main unit; successfully 3D printed prototypes, iterated designs, and delivered a fully functional product as part of a collaborative team effort.
- Maintained and optimized manufacturing equipment, including diagnosing and repairing 3D printers, operating CNC routers and laser engravers, and designing custom 3D printed hardware; also installed and managed access control systems to enhance security and operational efficiency.

Property Coordinator, Performance Property Management - Loveland, CO Nov 2024 – Current

- Manage key distribution, unit turnovers, move-in inspections, and post-move-in follow-up, ensuring timely communication with residents and the Director regarding vacancies, inventory, and office tasks.

Robotics Coach, Peoria Academy – Peoria, IL Aug 2019 – Dec 2019

- Instructed 4th – 8th graders in various engineering disciplines to teach the design process and fostered communication through hands-on activities
- Motivated critical thinking by rewarding innovative thinking to garner creative solutions from students
- Established a framework for future team success

Mechatronics Intern, Caterpillar – Peoria, IL June 2018 – Aug 2018

- Worked in tandem with industry experts to obtain knowledge about the creation of engine models
- Diagnosed and updated customers' service engine control module problems

Projects

UAV System Development jpullman.com/sparro

- Led a 4 person team in the iterative design of a 3 drone, small U.A.V system using SolidWorks
- Optimized components for FDM 3D printing
- Delivered ahead of schedule and 10% under budget
- Presented technical material to clients

IGVC Robot jpullman.com/igvc

- Designed a differential drive robot using Autodesk Inventor, maximizing off the shelf component usage
- Optimized use of additive manufacturing to reduce component costs by 70%
- Compiled product renderings and bill of materials for prospective sponsors

Skills

CAD: SolidWorks, Autodesk Inventor, Ansys Mechanical, KiCAD EDA
Electrical and Software: MATLAB, Python, C, C++, Arduino, Raspberry Pi
Manufacturing: Prototyping, 3D Printing, Soldering, CNC Mill

Certifications

- CSWP - Professional Certification in SolidWorks