Andy Ding

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Education

Purdue University **West Lafayette, Indiana**
B.S.E in Mechanical Engineering Expected Graduation Date: ***May 2023***
Honors: Dean's List GPA: **3.91/4.0**
Relevant Coursework: Thermodynamics I, Basic Mechanics I, Basic Mechanics II, Electrical Engineering Fundamentals I

Experience

Purdue Mechanical Engineering **West Lafayette, IN**
Undergraduate Researcher *January 2021 – Present*
- Working in a team to develop a closed loop 3D printer that utilizes depth sensor information as part of Purdue University's joint research program with the United States Army

Boiler Robotics Team **West Lafayette, IN**
Robot Arm Project Lead *January 2020 – Present*
- Directing the design and manufacturing of a SCARA robot arm for the University Rover Challenge
- Researching and implementing Robot Operating System and MoveIt packages for teleoperated control and simulation of the arm
- Established semester goals and timelines while delegating tasks among new recruits
- Performed analysis to determine necessary design choices and assisted in detailed Solidworks modeling for manufacturing

Purdue EPICS MOBI Team **West Lafayette, IN**
Design Lead *August 2019 – May 2020*
- Led development and manufacturing of improved hospital equipment for sonography
- Completed and delivered an improved exam stand for greater patient and technologist comfort using feedback provided by local hospitals

Purdue Electric Racing **West Lafayette, IN**
Vehicle Dynamics Member *August 2019 – March 2020*
- Validated designs and optimized part count using Solidworks and FEA simulations for the 2020 braking system
- Manufactured and assembled the brake system while incorporating customizations for the driver

Monta Vista Robotics Team **Cupertino, CA**
President and Mechanical Lead *November 2015 – June 2019*
- Revamped team communication and developed a comprehensive training program for new members
- Led a group of 10 in prototyping, designing, and manufacturing specific robot manipulators utilizing advanced fabrication techniques
- Communicated with Intel to incorporate Intel RealSense technology onto a robot and with Google to integrate their Assistant API to control a self-designed robot arm

Skills

CNC mill and router, Waterjet, Solidworks, CATIA, Inventor, Python, Arduino, Raspberry Pi, soldering, general machine shop work