

Andy Ding

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Education

Purdue University

B.S.E in Mechanical Engineering

Minor in Electrical and Computer Engineering

Honors: Dean's List

Relevant Coursework: Systems, Measurements, and Control I; Basic Mechanics II; E.E. Fundamentals II

West Lafayette, Indiana

Expected Graduation: May 2023

GPA: 3.92/4.0

Experience

Purdue AAMP-EM

Undergraduate Researcher

West Lafayette, IN

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 AAMP-EM research program with the United States Army

Boiler Robotics Team

Robot Arm Project Lead

West Lafayette, IN

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

Design Lead

West Lafayette, IN

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

Vehicle Dynamics Member

West Lafayette, IN

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

Skills

CNC operation, 3D printing, CAD/CAM, Python, MATLAB, Arduino, Raspberry Pi, Soldering