

# 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

West Lafayette, Indiana

Expected Graduation: May 2023

GPA: 3.92/4.0

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## 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
- Analyzing per layer data of a 3D print from a fringe projection system using MATLAB and C++ to correct defects during the printing process and reduce wasted resources from failed prints
- Updating project sponsors through regular presentations as well documenting overall progress through technical reports and research posters

### Boiler Robotics Team

Robot Arm Project Lead

West Lafayette, IN

January 2020 – Present

- Directing the design, manufacturing, and testing of a 6 degree of freedom 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
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## Skills

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