Andy Ding

(408) 780-5648 ● Cupertino, CA ● ding258@purdue.edu ● www.linkedin.com/in/andyhding

Education

Purdue University   **West Lafayette, Indiana**
B.S.E in Mechanical Engineering   Expected Graduation: **May 2023**
Minor in Electrical and Computer Engineering

Honors: Dean's List   GPA: **3.77/4.0**

Experience

Purdue AAMP-EM   **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 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   **West Lafayette, IN**
Robot Arm Project Lead   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   **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

Skills

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