

Andy Ding

(408) 780-5648 • 7591 Kirwin Ln. Cupertino, CA 95014
ding258@purdue.edu • www.linkedin.com/in/andyhding

Education

Purdue University

Bachelor of Science in Mechanical Engineering, GPA: 3.91/4.0

Dean's List and Semester Honors

West Lafayette, Indiana

Class of 2023 (Expected)

Skills

- CAD experience with Solidworks, CATIA, and Inventor
 - FEA experience with Solidworks and Inventor.
 - Programming skills in Java, Python, MATLAB, and C computer languages.
 - Hands on practical knowledge of CNC operation and general fabrication/machining.
 - Well versed with Microsoft Office products.
 - Familiar with electronics platforms such as Arduino and Raspberry Pi.
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Experience

Purdue Mechanical Engineering

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 joint research program with the United States Army.

Boiler Robotics Team

Robot Arm Project Lead

West Lafayette, IN

January 2020 – Present

- Directing the design, manufacturing, and testing of a SCARA style robot arm for the University Rover Challenge.
- Performed analysis to determine necessary design choices and began implementing ROS and MoveIt packages for controlling the arm.

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 step 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.

Monta Vista Robotics Team

President and Mechanical Lead

Cupertino, CA

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.

Tesseract Initiative

Workshop Presenter

Cupertino, CA

June 2017 – August 2018

- Planned as a team to develop and present curriculum for a series of mechanical design workshops for local students.