Andy Ding

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Education

Purdue University **West Lafayette, Indiana**
Bachelor of Science in Mechanical Engineering, GPA: 3.96/4.0 *Class of 2023 (Expected)*
Dean's List and Semester Honors

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.

Experience

Boiler Robotics Team **West Lafayette, IN**
Robot Arm Project Lead *January 2020 – Present*

- Directing the design, manufacturing, and testing of a SCARA style robot arm for the University Rover Challenge.
- Established semester goals and timelines while onboarding new members and ensuring an even distribution of tasks.
- Performed calculations to determine necessary leadscrew and motor reductions and helped other team members with similar tasks.

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 step 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.

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.

Tesseract Initiative **Cupertino, CA**
Workshop Presenter *June 2017 – August 2018*

- Planned as a team to develop and present curriculum for a series of mechanical design workshops for local students.
- Leveraged previous experiences to structure workshops to engage attendees and offer attendees unique experiences not found in classrooms.