Derick Louie

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EDUCATION

California Polytechnic State University - San Luis Obispo

San Luis Obispo, CA 2017-2021 **Bachelor of Science**

Major: Mechanical Engineering

GPA: 3.60/4.0

Dublin High School

Dublin, CA 2013-2017 Diploma **GPA:** 3.67/4.0 Advanced Scholar Diploma

RELEVANT COURSEWORK

Manufacturing Processes: Material Removal

- Developed skills necessary to operate mills, lathes, and a variety of power tools
- Created and followed production routings to manufacture and inspect parts

Computer Integrated Manufacturing

Used various CAD programs to design and create parts using processes including laser cutting, 3D printing, and CNC milling

EXPERIENCE AND PROJECTS

Team Lead

MailCheck

- 2017 Dublin High School Entrepreneur Project Innovative Thoroughness Award
- · Created and presented device that would notify users through a text message when they received mail in their mailbox
- Delegated tasks, scheduled meetings, and contributed to the mechanical, electrical, and programming portions of the project

Teen Tech Volunteer Iune 2015 – August 2015

Dublin Library

- Assisted users with tasks such as troubleshooting computers and downloading e-books
- · Improved communication skills by giving hands-on demonstrations on how to use various pieces of technology

CAMPUS INVOLVEMENT

Active Member October 2017 – Present

ASME Student Design Competition

- Analyzed competition and brainstormed with team to develop goalie design for robot soccer competition
- Used CAD software to create multiple iterations and build prototypes while meeting design review and competition deadlines

Active Member September 2017 - Present

Cal Poly Robotics RoboCup

- Multidisciplinary project involving close collaboration between hardware, electrical, and software teams
- Designed and began manufacturing of drivetrain for RoboCup small size league robot
- · Assisted with sourcing of parts and integration with other subsystems

Participant March 2014 - June 2017

Engineering and Design Academy

- · Scheduled monthly meetings with an industry mentor to seek insight on work in the engineering field and help with personal projects
- · Enrolled in a series of fundamental and specialized classes to expand knowledge on engineering topics and gain skills such as CAD, drafting, and manufacturing.

Vice President | Team Captain

June 2013 – April 2017

May 2017 – Present

Gael Force Robotics VRC Team

- 15 awards accumulated over 4 years, including awards from the state and world championships
- Qualified to and participated in the world championship all 4 years
- · Engaged with teams around the world by creating robot reveals and collaborating through online communities
- Thoroughly documented design process each meeting using a design notebook
- Fundraised by launching crowdfunding campaigns and contacting companies for grants

SKILLS

- · Autodesk Inventor Certified Professional
- Autodesk Fusion 360
- Solidworks
- CorelDRAW
- Microsoft Office
- Languages: English (native), Cantonese (native), Mandarin (conversational)

- Rapid Prototyping
- Machining
- Drafting
- Design for Manufacturability
- Java