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#### **Education**

University of California San Diego

Sep 2019 – Jun 2023

• Bachelor of Science: Mathematics – Computer Science

San Diego, CA

• Bachelor of Science: Mechanical Engineering, Specialized in Controls & Robotics

Double Major – GPA: 3.9+/4

San Domenico School

Sep 2015 - Jun 2019

Varsity Track & Field Captain – Junior Class President

San Anselmo, CA

Veritas Award, Varsity Track & Field MVP

Graduated with Highest Honor, GPA: 3.9+/4

# Work Experience

Data Analyst, Qualcomm Institute

Dec 2020 - Jun 2021

Analyze city open data on small businesses using python libraries.

San Diego, CA

Design modern solutions and analyze interviews with business owners

• Develop prototype and technical support to enhance business productivity.

Instructional Assistant, UC San Diego

Dec 2020 - Present

Tutor students during office hours on Solid Mechanics.

Assist professor preparing course and exam material. Conduct oral exams.

San Diego, CA

Improve students' performance by evaluating student's paper, assignment, and designs.

# **Projects & Experience**

#### Personal Website → https://qinjian.xyz

Strongly Recommend

Designed personal website with HTML, CSS, and JavaScript

• Details on projects, experience, and community service.

Blog section contains original articles on technology, culture, and society.

### Lightsaber Robot - Engineering Project

San Diego, CA

Designed and Manufactured a Competition Robot

Accomplish tasks including moving, rotating, and stacking objects with precision

Developed the CAD design; Applied theoretical knowledge and machine shop skills

#### Mars Landing Simulation, Engineering Project

San Diego, CA

Simulated 6 different trajectories of capsules landing on Mars.

Integrated parameters including mass, gravity, air drag, air density, thruster, etc.

• Presented data visualization including landing time, speed, and orbital period.

### Thermostatic Mug. Engineering Project

San Diego, CA

Led a team of engineers to design a mug that maintains a customized temperature.

Integrated Arduino sensor, linear circuits, and python programming to achieve functionality.

• Prototyped in Fusion360, and 3D Printed components for final assembly.

#### Pendulum, Engineering Project

San Diego, CA

Designed the pendulum body in AutoCAD and Autodesk Inventor

Simulated the frequency and stress analysis in Inventor

Assembled the pendulum using machine tools, laser cutting, band saws, etc.

#### Fitness Camp, Community Service

Beijing, China

Managed fitness group events over 60 people from different age groups and backgrounds.

Led discussions on nutrition, progressive overload, weight loss, and athletic performance.

Helped numerous participants achieve their various goals, specifically

## Prom 2k18, Event Planning

San Francisco, CA

Led Prom Planning for the senior class as a tradition as the junior class president.

Designed theme, contacted venue, organized fund raising, and recruited volunteers to help.

Thanks to teamwork and many dedicated individuals, we had a successful Prom in 2018.

#### Skills

• **Programming**: Java, Python, C++, SQL, C, HTML, CSS, JavaScript, React.js, Redux, Node.js, React Native, ARM, Electron, Bootstrap, TensorFlow, Pandas, Anaconda, GitHub, Docker.

• *Engineering*: SolidWorks, ANSYS, AutoCAD, Inventor, Fusion360, Finite Element Analysis, MATLAB, GD&T, Arduino, Prototyping, Design of Machine Elements, Design of Experiment, 3D Printing, Machining, Laser Cut, Manufacturing, Circuits Design, Computational Fluid Dynamics, Solid Mechanics, Dynamics.

 Mathematics: Probability & Statistical Model, Modern Applied Algebra, Enumerative Combinatorics, Numerical Method for Linear, Non-Linear & Differential Equations.

Soft Skills: Event Planning – Prom 2k18.
Initiative – Founded Fitness Camp.

Business – Foreign Investment Management. Public Speaking – Junior Class President.