Jian Qin (Ray)
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EDUCATION

Sep 2019 – Jun 2022 **University of California San Diego**, San Diego, CA

- Bachelor of Science: Mechanical Engineering (GPA: 3.9+/4.0)
- Advanced Background in Computer Science

Course Wok: Design of Machine Elements. Kinematics. Dynamics & Vibrations. Linear Circuits. Numerical Methods/Analysis. Thermodynamics. Fluid Dynamics. Heat Transfer. Mechanics of Material/Material Science. Signals & Controls.

WORK EXPERIENCE

Dec 2020 – Jun 2021 **Instructional Assistant**, University of California San Diego (Part Time)

- Assist Professor to prepare course material.
- Tutor students on Solid Mechanics during office hours.
- Evaluate student's paper & Circuit Design, including OP AMPs, Filters, Active Circuits.

Dec 2020 – Jun 2021 **Complex System Analysis**, Qualcomm Institute, San Diego (Internship)

- Utilize Python to analyze city open data on small business, including network analysis.
- Conduct Info session, Solution design, Phone interviews to increase productivity.
- Prototype development, Mentorship, Technical support

Aug 2015 – Present **Construction Investment Management**, Nairobi, Kenya (Part Time)

- Managed Apartments for Rental in Kenya
- Communicate with Developers and International Customers
- Negotiate Deals, Draft, and Revise Contracts with Professional Lawyers

PROJECTS

Sep 2019 – Jan 2020 **Light Saber Picking Robot**, University of California San Diego

- *Designed* and *Manufactured* a Robot for Competition.
- Able to Move, Rotate, Lift, and Stack objects with Precision.
- Created CAD Design, Machine Shop & theoretical knowledge for Prototype.

Nov 2019 – Mar 2020 **Automatic Thermostatic Mug**, University of California San Diego

- Created a *Functioning Prototype* of a Thermostatic Mug.
- Maintains Customized Temperatures by Python Coding and Arduino sensor.
- Designed Full prototype in Inventor & 3D Printed parts.

Sep 2019 – Jan 2020 **Simulation of Mars Landing**, University of California San Diego

- Use MATLAB to simulate the trajectory of several capsule landing on Mars.
- Simulate parameters including Mass, Gravity, Air Drag, Air Density, Thruster, etc.
- Generated report for data including, landing time, landing speed, orbital period, etc.

Nov 2017 – Aug 2020 **Community Service Project**, Beijing, China

- Managed Fitness Group Events Over 60 People.
- Organized Group Hiking & Workout Sessions & Seminars.
- Trained over 100 people to Achieve Their Varied Fitness Goals.

SKILLS

- **Solidworks**(3yrs+)
- **AutoCAD**(3yrs+)
- Python Programming
- Prototyping, testing
- MS Office (Excel/Word)
- GD&T & FMEA
- MATLAB/Simulink
- Design of Experiment
- Finite Element Analysis (**FEA/FEM**): Solidworks + ANSYS
- **Machining**: Milling, Drilling, 3D Printing, Laser Cut, Water Jet, etc.
- Trilingual: English Mandarin Native. Spanish classroom study.
- Analytical + Effective communication + Problem Solving skills