Mohan Parekh

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EDUCATION

B.S.E., Mechanical Engineering (Energy & Environment) Graduating May 2023
Barrett, The Honors College at Arizona State University GPA: 3.90/4.00
Relevant courses: Circuits, CAD, Structural Mechanics, Thermodynamics, Rigid Bodies, Fluid Mechanics, Structures & Properties of Materials

WORK EXPERIENCE

Resident Assistant, Arizona State University **Jul. 2021 - Present**

- Respond to emergency situations promptly to enforce University Housing policy in a community of 1600 residents
- Mentor over 50 first-year residents in professional and social development while mediating conflicts that arose in the community
- Interact with residents of all different backgrounds and helped them with the transition into college while promoting events to increase resident engagement

Undergraduate Research Assistant, Arizona State University **Aug. 2021 - Present**

- Set-up, calibrate and utilize Futek Strain Gauges to detect resistive forces measured by Futek Load Cells.
- Utilize Arduino to record output voltages and convert data to determine the amount of force load cell experiences
- Designing housing shell with goal of placing load cell in the tip of vertical penetrator to record resistive force encountered during soil penetration
- Met weekly with professor and graduate students to report progress made and receive feedback

Teaching Assistant, Arizona State University **Aug. 2020 - Dec. 2020**

- Assisted a professor and academic advisor weekly in the classroom
- Helped freshmen with their transition into college through discussions and group activities

ACADEMIC PROJECTS

Hardening of Soft Targets, Devils Invent **March 2021**

- Participated in Department of Homeland Security sponsored competition to design solutions to protect soft targets
- Utilized SolidWorks experience to prototype and model concepts used in presentation
- Pitched solution to panel of judges consisting of industry professionals from various organizations
- Placed first in weekend competition, won $4000 for team's design

Robotics Competition, Sun Devil Robotics Club **Feb. 2021 - Apr. 2021**

- Collaborated with a group of four in a competitive environment to design and manufacture a battlebot
- Utilized SolidWorks to plan, design and eventually 3D print the shell and various internal structures
- Gained experience with circuitry through soldering and using ESC motors to create a rotating weapon

Nepal Pyrolizer, EPICS **Aug. 2019 - May 2020**

- Led team to increase the efficiency of the pyrolysis process used to create an energy source in Nepal
- Followed the engineering design process to create several potential improvements to the current pyrolysis process
- Presented progress to industry judges professionals and ASU faculty

TECHNICAL SKILLS

Design and Application: SOLIDWORKS, MATLAB
Other: Microsoft Excel, Microsoft Word, Microsoft PowerPoint