Johnny Jue

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Education

California Polytechnic State University- San Luis Obispo   Sept 2022—Present
Bachelor of Science in Mechanical Engineering – *GPA: 3.24*

Skills and Coursework

Software: SolidWorks CAD/FEA, Autodesk AutoCAD, Fusion 360, MATLAB, MS Suite
Completed Coursework: Engineering Dynamics; Mechanics of Materials II; Linear Analysis II; Thermodynamics I, Design for Strength and Stiffness I

Projects and Activities

Modular Kitchenette   *San Luis Obispo, CA*
Team Member   Sept 2023—Dec 2023
- Utilized human-centered design principles and determined specific characteristics of our solution within a chosen problem space (kitchen multitasking)
- Conducted stakeholder interviews and surveys to continuously make changes to our design, factoring in responses to each stage of development according to our Gantt chart
- Developed prototypes and scale models of various fidelities, including a SolidWorks visual assembly exhibiting the modularity and portability of our final kitchenette design

Knee Scooter   *San Luis Obispo, CA*
Team Member   April 2024—Present
- Collaborating with a team to design and manufacture a PVC knee-scooter accommodated for an individual stakeholder, creating initial dimensions and conducting measurements for scooter sizing
- Computed hand calculations for deflections and buckling based on applied bending and axial loads to meet design factor requirements for individual PVC pipes
- Simulated normal and abuse cases using SolidWorks FEA, comparing hand calculation results to von Mises stress and maximum deflections based on applied static and buckling loads as taken from initial free-body diagrams created around our stakeholder's needs

PROVE (Prototype Vehicles) Lab   *San Luis Obispo, CA*
Mechanical Team Member   Feb 2024—Present
- Redesigning Global Suspension Jig for our MILA electric endurance vehicle to accommodate for a high-efficiency, in-wheel electric motor projected at over 1200 miles of range
- Utilizing Siemens NX and BILD to share and edit GSJ CAD files in relation to the changed wheel hub design; presented a product design review to iterate and modify based on manufacturing limitations and stress requirements
- Proposed active and passive battery cooling solutions to cool passenger cabin compartment under high heat input for recruitment project

Work Experience

Bailey College of Science and Mathematics   *San Luis Obispo, CA*
Donor Relations Student Assistant   Jun 2023—Present
- Utilizes MS Word and Excel to compile and sort detailed report data relating to monetary gifts within the college
- Produce donor acknowledgement letters with efficiency and accuracy on a weekly basis, using the mail merge tool to relay a donation's detailed information onto a single letter

MilkT Society   *San Luis Obispo, CA*
Barista   Jun 2024—Present
- Prepares a variety of specialty boba tea drinks while delivering superior customer service
- Maintains the front and back kitchens for an organized workspace, enabling high quality and consistency
- Communicates transactions accurately and efficiently using the Toast POS system throughout the purchase and order pickup process