John Chen
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Education

California State Polytechnic University, Pomona, CA - Junior Standing Exp. June 2027
B. S. Mechanical Engineering (GPA 3.630)

Norco College, Norco, CA - Graduated June 2024
Mechanical Engineering for Transfer CSUGE (GPA 3.750)

Relevant Coursework: Solidworks, Cura, Materials Testing, Vector Dynamics, Mechanical Dissections/Analysis of Products, Thermodynamics, Mechanics of Materials, Fluid Mechanics, Stress analysis, Matlab.

Experience

College Club President Sep. 2022 - May 2024
Norco College, Norco, CA
- Hosted and coordinated various events associated with Norco College's Campus.
- Developed an open environment for members to share opinions and suggestions for upcoming events, activities, or club trips.
- Funded multiple club trips and events through presenting and representing my club's action items within Norco College's Inner Club Council.
- Cultivated active club participation through managing labor for various projects and club events.

Cal Poly Rose Float Sep. 2024 - Oct. 2024
California State Polytechnic University, Pomona, CA
- Welded and shaped pencil steel to the design specifications of Cal Poly's Nesse Rose Float.
- Worked alongside team leads and members toward like-minded goal points (Deco and Design Teams).

Mechanical Analysis | *Solidworks* Jan. 2025 - May 2025
California State Polytechnic University, Pomona, CA
- Learned and applied various design practices: Product Life Cycle, Product Decomposition, SWOT Analysis, House of Quality, Decision Matrices, Bill of Materials, P-diagrams
- Created accurate models for various mechanical products; used models for further analysis and visual mechanical breakdowns in reports.
- Researched relevant references to perform static/mechanical analysis on products (mechanical pencil, catapult).

Materials Testing/Research | *Instron, Shimadzu, ADMET, NL Scientific* Jan. 2025 - May 2025
California State Polytechnic University, Pomona, CA
- Familiarized with universal materials testing equipment/machine and functions (tension, compression, torsional, bending, rolling (coldworking), heat treatment furnaces, hardness testers
- Analyzed the deformation/reaction of materials to different tests to conclude material's properties and possible components.
- Utilized MatWeb's online materials catalogue to decipher unknown material's components and origins.
- Researched and applied material properties, mechanical/principal stresses, and medical statistical data toward possible alternatives for amputee leg pylons and human implants/joint replacements.