JACKSON ZILLES

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Education

College of Engineering - University of California, Berkeley — Junior (Dec 2024)
B.S. Mechanical Engineering — GPA: 3.5/4.0

- Relevant Coursework

3-D Modeling | FEA | MATLAB | Differential Equations | Multivariable Calculus | Physics I & II | Mechanics | Linear Algebra | Manufacturing | Design Communication | Thermodynamics | Product Design | Human Design

Skills and Awards

- **Manufacturing Skills:** Machining / Engineering Drawings / 3-D Printing / CNC Routing / Lathes / Mills
- **Software Skills:** SolidWorks / Fusion 360 / AutoCAD / Adobe Creative Suite / Microsoft Office Suite
- **Soft Skills:** Spanish (conversational) / Leadership / Communication / Teamwork / Problem Solving
- **Awards:** Berkeley SCET Entrepreneurship Certificate / National Merit Commended Student

Experience

Stryker — R&D Intern — May 2023 - Sept 2023

- Designed and prototyped a new surgical device to expand capabilities of current portfolio
- Designed and prototyped product fixture to increase ease of use and safety
- Tested new products with various instrumentation (Keyence, Instron, force gauges)
- Designed test fixtures and created industry standard reports of testing protocols and results

Arch Day Design — Engineering Intern — Jul 2020 - Jul 2021

- Worked with various software and hardware to successfully 3-D print high quality parts
- Streamlined designs for optimal printing
- Created low cost, durable parts for testing
- Improved design, manufacturing, and testing skills

BEAR Adventure Vehicles — Product Design — Jul 2022 - Sept 2022

- Created modular interior design pieces for product standardization
- 3-D printed product models for client visualization
- Collaborated with team members to improve design choices for cost and space limitations

Engineering Projects

Bioprinting @ Berkeley — Club Engineering Leader — Sept 2021 - Current

- Designed and manufactured a prosthetic hand from the ground up using CAD and 3-D printing
- Creating a skin-like layer to combine the functionality of a bionic hand with visual aesthetics

Ultrasound Transducer — Design and Manufacturing Lead — Feb 2023 - May 2023

- Re-designed and prototyped an ergonomic transducer to reduce work-related musculoskeletal injuries
- Connected with over 20 industry professionals to solve real problems being experienced

Adjustable Stool Backrest — Design and Manufacturing Lead — Sept 2022 - Dec 2022

- Designed a spring-loaded backrest with three adjustment points capable of holding full reclining weight
- Machined 14 individual parts using mill, lathe, water jet, 3D printer, band saw, and metal bending