

Jill Bishop

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Summary of Qualifications

- Experience in research, analysis, material selection, and mechanical testing
- Skilled in design, fabrication, and standard operating procedures
- Hands-on team projects involving design, process, testing and/or analysis
- Extensive customer service, teamwork, and communication experience with peers and management

Education

California Polytechnic State University, San Luis Obispo

Bachelor of Science in **Materials Engineering**, June 20xx

Major GPA: 3.02

Areas of specific study:

Mechanical Behavior, Biomaterials, Physical Metallurgy, Composites, Polymers, Joining of Advanced Materials, Micro Systems, Micro Fabrication, Electronic Properties of Materials

Materials Engineering Experience

Process Development Engineering Internship

06/xx – 9/xx

Catalytic Solutions Inc. – Oxnard, CA

- Modified 3-point bend mechanism to perform repeatable 4-point bend tests
- Developed testing procedure for qualifying raw, coated, and finished substrates
- Redesigned Excel worksheets for the NOx emission of each coating process
- Wrote Standard Operating Procedures (SOP) and reports for internal publication

Materials Selection Team Project

09/xx – Present

- Collaborated in a team of three to perform materials selection for an arrow
- Produced graphs comparing material properties of a variety of materials of different material classes using CES to narrow down to a few choices.
- Performed a life-cycle analysis on remaining choices to inform best material choice
- Completed a detailed report analyzing which material works best for an arrow

Other Technical Projects

- Material selection and design of SMARTPill microchip for short-term drug delivery
- Biocompatibility of Titanium alloys research and critique
- Team designed and fabricated Fiber Optic assembly to test light transfer
- Aluminum beverage can strain measured with strain gauges with partner
- As a team, fabricated and tested YBa₂Cu₃O₇ superconductor
- Researched and critiqued the effect of laser welding parameters

Technical Skills

- **Computer Applications:** CES, SolidWorks, Minitab, MATLAB, Microsoft Word, PowerPoint, Excel
- **Equipment:** Instron Tensile Testing, Rockwell Hardness, X-Ray Diffraction, X-Ray Fluorescence, Scanning Electron

Work Experience

Health Plus Pharmacy - San Luis Obispo, CA

7/xx – 6/xx

Sales Clerk (20 hours per week)

- Enhanced communication and problems solving skills by assisting customers with product inquiries and responding to customer issues timely and effectively
- Demonstrated effective time management skills by working 20 hours per week during college