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