Jon Moore

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Permanent Address: San Jose, CA

**Education**

California Polytechnic State University, San Luis Obispo Class Level: Junior

Bachelor of Science in **Materials Engineering**, June 20xx Financing 70% of college expenses

GPA: 3.4 Dean’s List: 2 quarters

**Materials Engineering and Relevant Experience**

**Scholar, Research Experience for Undergraduates (REU) through National Science Foundation**

Purdue University*,* West Lafayette, IN June - Sept. 20xx

* Designed a process for electroless deposition of silver into silica aero gel pores
* Designed and executed tests to analyze variables in silver plating effectiveness
* Used an optical microscope, XRD, SEM, and Field-Emission Scanning Electron Microscope (FESEM) for characterization of silvered aero gel

**Synthetic ACL Graft Project - Noncrystalline Materials Systems, Cal Poly** June 20xx - March 20xx

* Tested a coated PET synthetic ACL graft to assess whether it was a viable option for ACL reconstruction
* Researched which materials met the functional requirements of biocompatibility, tensile strength, flexibility, and wear resistance for the graft as well as literature on previous failed attempts to implement synthetic grafts
* Investigated coatings that increased wear resistance due to PET graft’s past failure from contact with abrasive bone
* Demonstrated effective written and verbal communication skills by summarizing findings and recommendations for further testing in a final report as well as presenting to class

# **Materials Engineering Department – Cal Poly**

**Lab Assistant** for Materials Engineering Department Chair (10 hours/week) Dec. 20xx - Present

* Plan and execute lab experiments for Materials Engineering Lab II
* Instruct students on nanoscale science, metallography and microstructures, phase diagrams, soldering, and X-Ray Diffraction during class and optional study hall hours

**Engineering Possibilities in College (EPIC) Camp – Cal Poly**

**Materials Engineering and Electrical Engineering Lab Leader** June - Aug. 20xx

* Instructed the importance of producing new hardware by programming robots
* Taught the basics of materials selection by engineering prosthetic cat legs

**Skills**

**Software:** C/C++, Creo-Parametric, Minitab, SolidWorks, Microsoft Word/Excel/PowerPoint

**Equipment:** Instron Tester, X-Ray Diffraction, Differentia Scanning Calorimetry, lathes and mills

**Leadership and Involvement**

**Treasurer,** National Society of Black Engineers – Cal Poly Sept. 20xx - Present

Materials Engineering Student Society – Cal Poly Sept. 20xx - Present

Week of Welcome Orientation Leader April – Sept. 20xx

Interests: Surfing, hiking, triathlons