

Jon Moore

408.424.1234 • jtmoor99@calpoly.edu • linkedin.com/in/jtmoor99

Permanent Address: San Jose, CA

Education

California Polytechnic State University, San Luis Obispo
Bachelor of Science in **Materials Engineering**, June 20xx
GPA: 3.4

Class Level: Junior
Financing 70% of college expenses
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, Differential 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