Mark Johnson

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Education

California Polytechnic State University – San Luis Obispo
Bachelor of Science in **Biomedical Engineering**, June 20xx
Major GPA: 2.93 Class Level: Junior
Financing 50% of college expenses – work 15 hours per week while attending school full-time

Relevant Coursework: Biomechanics, Biomaterials, Systems Physiology, Biosensors and Circuits, Anatomy/Physiology, Cardiac Physiology, Neuroanatomy

Biomedical Engineering Projects

Spinal Fusion Device – Medical Design Club Sept 20xx-Present

Collaborating in a team of 15 students to develop a new method of spinal fusion. Overseeing design aspects of the product through QFDs, design matrices, and iterative prototype testing. Composing a comprehensive report utilizing market, clinical, and feasibility studies on the product.

White Cane Design Team Project – Cal Poly Jan. – March 20xx

Collaborated in a team of three to design and build a white cane for people with vision impairments. Assisted with SolidWorks design and led the team by coordinating meetings for design and machining. Spent 30 hours machining the cane. Improved public speaking skills through team technical presentation to the class.

Materials Selection and Testing Team Project – Cal Poly March – June 20xx

Collaborated in a team of four to design a testing machine capable of mimicking natural hip motion through millions of cycles to represent implant wear over time. Used CES EduPack software to identify material properties suitable for a total hip replacement including: compressive strength, biocompatibility, degradation, and cost. Selected design based on factors like stress shielding, biocompatibility, and preventing wear. Performed mechanical testing including tensile testing on PLGA scaffolds, flexural testing on bone, and compliance testing on an occlusion catheter. Co-wrote 15-page comprehensive technical report and presented final project with teammates.

Technical Skills

Computer: SolidWorks, Pro-Engineer, Microsoft Word/Excel/PowerPoint
Equipment: Lathes, mills, CNC machine

Involvement / Community Service

Biomedical Engineering Society, Cal Poly Chapter
Cal Poly Intramural Basketball and Softball
Volunteer at local wine festivals
Interests: Enjoy surfing, skiing, snowboarding, and golfing

Work Experience

Associated Students Incorporated – Cal Poly
Swim Lesson Instructor and Lifeguard (15 hours per week during school) Sept. 20xx – Present
Demonstrate excellent interpersonal, teamwork, communication, and time management skills