

Cameron Bauer

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Work Experience

R&D Mechanical Engineer (intern)

Stryker Neurovascular 05/2017 – 08/2017

- Designed and prototyped an accessory product for neurovascular thrombectomy system. Device was chosen to be presented to Patent Review Board.
- Developed methods to mechanically and thermally characterize an ePTFE sintering process. Transferred process and reviewed implementation in Stryker's Ireland manufacturing facility.
- Created test method and associated fixtures to mechanically characterize pre/post-processed material. Studied operator variability and usability of test setup. Method is used in IQA and as a process control tool on manufacturing line.

Space Tensegrities Researcher

Berkeley Emergent Space Tensegrities 05/2016 – 05/2017

- Optimized PCB design layout, prototyped mechanical assembly, and engineered novel omnidirectional contact sensors for the 4th revision of the 6-bar tensegrity robot.

Product Engineer (Intern)

Tactus Technology 05/2015 – 07/2015

- Lead drop test failure analysis, analyzed mechanical failure of products, and implemented design changes.
- Designed and fabricated 3-axis CNC epoxy mixing and dispensing robot to increase consistency and decrease manufacture time for gluing processes.

FIRST Robotics Team Mentor

De La Salle, Team 2141 01/2014 – 01/2017

- Coached high school students in mechanical assembly, machining, electronics, and pneumatic systems.

Embedded Systems Course Moderator

EE40LX Electronic Interfaces on edx.org 01/2015– 10/2015

- Moderated a course with over 22,000 students, monitored and edited course wiki, and guided students on discussion forum.

1st – 3rd Grade Science teacher (volunteer)

St. Isidore Catholic School 08/2016 – 12/2016

- Utilized my education experience to teach 1st – 3rd grade students science and guide them through the difficulties I faced when I was younger.

Mathlab Tutor

Diablo Valley College 09/2013– 05/2014

- Tutored Algebra, multivariable calculus, linear algebra, and differential equations.

Education

M.S. – Mechanical Engineering 08/2017 – 05/2018 GPA: 4.0
University of California, Berkeley

B.S. - Mechanical Engineering 08/2014 – 05/2017 GPA: 3.88
University of California, Berkeley

Technical Skills

Please visit www.cameronbauer.com for demonstration of projects relevant to technical skills.

Fabrication

- Machining
- 3D printing
- Laser cutting and engraving
- CNC mill operation
- Woodworking
- Rapid prototyping
- Fiberglass and composites

Programming

- Instron
- LabVIEW (CLAD certified)
- MATLAB
- Arduino

Design

- Solidworks
- Product development
- Analog circuits
- Technical drawing
- Planar machinery
- Polymer Engineering

Analysis

- Instron operation
- DSC analysis
- Fracture Mechanics
- Polymer Degradation
- Structural analysis
- Life cycle assessment (GaBi)

Related Hobbies

- Robot design, fabrication, and competition
- Two-stroke internal combustion engine rebuild
- Advanced audio system design and tuning

Leadership Experience

- **Officer** Mechanical Engineering Honors Society (PTS)
- **President** College Honors Society (Phi Theta Kappa)
- **President** FIRST Robotics Team 2141
- **Eagle Scout** Boy Scouts of America
- **Team Captain** Water Polo

Awards & Achievements

- Honors Society All State Academic Team
- 1st Place in Las Positas Speech Competition
- Publication of writing in Las Positas Anthology
- Most Inspirational Player in water polo
- Coaches Award in water polo
- Science and Technology Award in high school