

# Kenneth E. Jeffris

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## Personal Statement

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I am a motivated student pursuing an undergraduate degree in bioengineering with the intent of matriculating in a graduate program in a related field. I have a passion for biomedical devices and novel targeted treatments such as stem cell therapy.

## Education

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**University of California, Berkeley** – Berkeley, CA  
August 2014 – Present  
B.S., Bioengineering | GPA: 3.27  
Expected Graduation: May 2018  
*Awards:* Regents' and Chancellor's Scholarship

**Yosemite High School** – Oakhurst, CA  
August 2010 – June 2014  
GPA: (unweighted) 4.0 | (weighted) 4.5  
*Awards:* International Baccalaureate Diploma | Valedictorian

## Experience

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### Berkeley Imaging Systems Laboratory

*Student Researcher*

*February 2016 – Present*

- Currently developing a clinically relevant pulmonary embolism model in Fischer rats to test the efficacy of Magnetic Particle Imaging as a viable diagnostic tool.
- Utilizing Magnetic Particle Imaging to track and determine the viability of in-vivo therapeutic stem cells.

### UC Berkeley Visitor and Parent Services

*Campus Ambassador*

*February 2015 – Present*

- Responsible for general and private campus tours of UC Berkeley, including specialized tours for the College of Engineering.

### Lawrence Berkeley National Laboratory

*Srinivasan Electrochemical Technologies Group*

*May 2015 – January 2016*

- Assisted with stress/strain experiments of progressive automotive battery binding materials.
- Utilized HTML to create a form for producing new hazardous waste disposal requisition labels.

### CSU Fresno Cancer Biology Research Laboratory

*UCSF Fresno Summer Biomedical Research Intern*

*May – August 2013*

- Learned sterile cancer and stem cell tissue culture.
- Tested for possible synergistic effects of Tamoxifen and Zoledronic Acid on estrogen receptor positive breast cancer cell apoptosis rates while minimizing overall toxicity for non-cancerous tissues.

## Leadership and Involvement

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### University of California Marching Band

*August 2014 – Present*

*Head of Medical Committee, STUNT Committee*

*February 2015 – February 2016, February 2016 – Present*

- Continuously updated the medical supplies and organized them in an efficient manner for use at practices and performances and organized First Aid/CPR certification for volunteers.
- Hosted weekly meetings to promote mental health and reduce stress
- Working on a team to design field shows and create practice schedules for the 2016-2017 marching season.

### Theta Tau Professional Engineering Fraternity

*May 2015 – Present*

*Historian*

*May – December 2015*

- Organized and led an engineering themed pitch competition for the general student body at UC Berkeley sponsored by the student association (50 hours)
- With the help of 13 others, built a Rube Goldberg machine to erase a chalkboard utilizing fifteen unique transfers of energy (150 hours)

## Projects

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### 2014: Eagle Scout

- Built a mobile science center for a local educational beneficiary to teach hands-on science to elementary and middle school children (115 hours)
- Utilized at five local elementary and middle schools where science funding was cut

## Skills

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**Computer:** HTML (minimal) | LaTeX | Photoshop | Microsoft Office | Matlab | OSX and Windows OS

**Laboratory:** MTS/WST Assays | Experience in sterile fume hood and glove box | Dissection | Small Animal Handling

**Tissue Culture:** Splitting | Plating | Freezing | Counting | Thawing