Adam Andrews

Los Angeles, CA **adamandrews@berkeley.edu** **adamandrews1.github.io**

EDUCATION

University of California, Berkeley May 2018

- Master of Engineering, Biomedical Engineering (3.648 GPA)

University of California, Los Angeles June 2017

- Bachelor of Science, Biomedical Engineering with a Concentration in Material Science (Biomaterials & Regenerative Medicine)
- Minor in Mathematics

EXPERIENCE

Kelvi Jun 2018 – Present

R&D Engineer **Los Angeles, CA**

- Under supervision applies functional specifications and uses engineering tools to design hardware, electronic circuits, control systems and algorithms for product changes and new development
- Develop and maintain proprietary data collection software tools
- Uses software tools or applications to perform routine analysis to predict performance of electronic circuits and control systems and identifies design improvements by evaluating results
- Performs reliability analysis such as risk assessments and Failure Mode Effects Analysis by compiling and examining data
- Identifies testing requirements at a system level with the emphasis on complying with 60601-1 test standards and Kelvi's procedures
- Coordinates with project leads to produce project deliverables by assessing input requirements and applying functional specifications
- Develops relationships through excellent communication skills and acts as a key resource to create innovative solutions

Bio-Rad Laboratories April 2017 – December 2017

Manufacturing and Quality Engineering Intern **Lake Forest, CA**

- Design, research, analyze, and test biomanufacturing processes
- Use mechanistic and phenomenological models to perform root cause analysis
- Support corrective and preventative action (CAPA) process
- Produce business impact and technical reports supporting corrective actions
- Manage and update SOP and MP documentation
- Perform process and equipment qualifications (IQ/PQ/OQ)

UCSF-Berkeley Joint Capstone Project Sept 2017 – Present

Machine Learning to Predict In-Hospital Cardiac Arrests Berkeley, CA

Data Analyst

- Utilize Python and TensorFlow to analyze clinical electrocardiogram time series
- Apply a series of classifiers for Premature Ventricular Contraction (PVC) electrocardiogram events including Naïve Bayes, convolutional neural network (CNN), and Random Forest
- Achieve a lower false positive alarm rate, reducing nurse alarm fatigue

Forcyte Biotechnologies, Inc. Sept 2015 – Jan 2017

Undergraduate Researcher **Los Angeles, CA**

- Develop a novel force phenotyping platform ideal for high throughput pharmaceutical screening
- Measure single cell contractile forces on Fibronectin-treated PDMS patterns
- Execute Microfabrication, Staining, and Fluorescent Microscopy techniques
- Published results in the British Journal of Pharmacology

AWARDS & ACTIVITIES

Muriel K. and Robert B. Allan Engineering Fund Winner 2017

William L. Martin Engineering Undergraduate Scholarship Winner 2015

Simon Ramo Endowed Scholarship in Engineering Winner 2014

Eagle Scout, Boy Scouts of America 2012