Adam Andrews

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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

RELATED 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**