Adam Michael Andrews

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PROFESSIONAL EXPERIENCE

Kelvi   **Los Angeles, CA**
Developer / Engineer   *June 2018 – Present*
- Innovate, prototype, and deliver innovative solutions spanning various technical verticals in a fast-paced startup environment
- Develop product embedded firmware in C++ on RTOS to support real-time operation of state-of-the-art thermal therapy medical devices
- Lead and manage product and software testing strategy, and train engineers and interns to drive successful testing and documentation outcomes
- Develop automation and manufacturing tools in Python, Bash, HTML5, and CSS3 to remove bottlenecks, lower build times, and automate testing
- Manage issue tracking and Git workflow in Jira to drive progress visibility within the development process and facilitate feedback with other project leads
- Design PCBs in Mentor Graphics PADS to create feature-rich and reliable electrical platform for delivering critical product features including batteries, sensors, and other peripherals
- Work with executive management to identify system-level feature, safety, and performance requirements with emphasis on complying with IEC 60601-1 test standards
- Proactively increase value to company and reduce reliance on external resources by identifying and acquiring new technical skills (e.g., Django)

UCSF-Berkeley Joint Capstone Project   **Berkeley, CA**
Machine Learning to Predict In-Hospital Cardiac Arrests
Data Analyst   *Sept 2017 – June 2018*
- Utilize Python and TensorFlow to analyze clinical electrocardiogram time series, lowering the false positive alarm rate and reducing nurse alarm fatigue
- Apply a series of classifiers for Premature Ventricular Contraction (PVC) electrocardiogram events, including Naive Bayes, convolutional neural network (CNN), and Random Forest
- Refine communication skills to nontechnical audiences through ongoing interactive presentations

Bio-Rad Laboratories   **Irvine, CA**
Engineering Intern   *April 2017 – December 2017*
- Create and implement data-driven biomanufacturing process improvements in a portfolio of diagnostic hematologic products
- Use statistical root cause analysis to identify and fix manufacturing bottlenecks to increase product throughput by 33% in certain product segments
- Support senior executives in meeting Corrective and Preventative Actions (CAPA) and other regulatory goals
- Design and perform Process and Equipment Qualifications and Validations (IQ/OQ/PQ) to ensure FDA compliance

EDUCATION

University of California, Berkeley   **Berkeley, CA**
Master of Engineering, Biomedical Engineering   *August 2017 – May 2018*
                                                                 Cumulative GPA: 3.65 / 4.0

University of California, Los Angeles   **Los Angeles, CA**
B.S. Biomedical Engineering w/ Concentration in Material Science *September 2013 – June 2017*
Minor in Mathematics   *Cumulative GPA: 3.4 / 4.0*
- **Honors:** Muriel K. and Robert B. Allan Engineering Scholarship (2017), William L. Martin Engineering Undergraduate Scholarship (2015), Simon Ramo Endowed Scholarship in Engineering (2014)

SKILLS & INTERESTS

- **Technical Skills:** Git, PCB Design, HTML5, CSS3, Django, Python, C++, Bash
- **Certifications:** California Real Estate Agent - License ID# 02101247, Eagle Scout
- **Interests:** Real Estate Investing, Beach Volleyball, Automation, Hiking, Web Design