Jacob Rockland

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EXPERIENCE

Co-founder & CPO, Somatic Labs — Denver, CO (Techstars Class 105)   **May 2016 – Present**
- Company was granted awards by NASA iTech, Avnet, TechConnect, and Arizona State University
- Developed and deployed multiple Swift-based iOS applications for collecting user-research results and storing them to a PostgreSQL database, managing BLE accessories, and sending tactile emojis—"hapmojis"
- Developed and maintained open-source Swift and Python libraries for interacting with our haptic SDK
- Led product development of custom tactile displays for NASA Johnson Space Center
- Guided online web presence and branding (zorbtouch.com)
- Developed unique process for encapsulating linear resonant actuators for the design of tactile displays
- Designed modular head-mounted tactile displays—worn as a headband or embeddable in hard hats, helmets, and other headwear
- Designed processes and assembly rigs for final mechanical enclosure assembly of wrist-worn haptic wearable
- Developed process for small batch manufacture of 1500 silicone tactors for beta-release of 300+ shippable units
- Oversaw final assembly, quality assurance, and packaging with contract manufacturer

Co-founder, KorkBoard — Tucson, AZ   **February 2015 – March 2016**
- Led iOS product development while actively contributing to Objective-C codebase
- Oversaw freelance developer and, in coordination with co-founder, drove beta launch within 6 months of product inception
- Conducted market research to better understand the customer, driving effective product development
- Scaled beta launch from University of Arizona to include Clemson and Sciences Po universities

Undergraduate Lab Assistant, University of Arizona — Tucson, AZ   **January 2015 – April 2015**
- Applied digital logic design principals and technical Verilog knowledge to assist in weekly FPGA labs for ECE 274A

Software Developer, Ebook Glue — Phoenix, AZ (Remote)   **September 2014 – May 2015**
- Programmed an interactive environment for Ebook creation in Python/Coffeescript/HTML
- Worked in an agile software development environment collaborating with a group of 7 other developers

Engineering Intern, Spectral Instruments — Tucson, AZ   **July 2014 – May 2015**
- Implemented Python/C/C++ programming knowledge to create calibration/testing software and firmware
- Applied strong analytical reasoning skills to adapt to the rapidly changing requirements of my position

PRESENTATIONS

AMEC 10th Global Summit on Measurement — Barcelona, Spain   **May 2018**
"Ethical Considerations For Artificial Intelligence"; speaker for the "Where We Are and Where We're Going" workshop

EDUCATION

University of Arizona — Tucson, AZ   **Spring 2018**
B.S., Computer Science; Minor in Philosophy; 4.0 GPA — Phi Beta Kappa, Tau Beta Pi, Gamma Phi Beta

Sciences Po — Study Abroad, France   **Spring 2016**
Economics & Language Studies; semester exchange program in Paris

don Quijote Spanish School — Study Abroad, Spain   **Fall 2015**
Intensive Spanish Courses, 14 weeks studying in Salamanca, Madrid, Barcelona, and Valencia

Arizona State University/CIEE — Study Abroad, China   **Summer 2014**
Environmental Sustainability, three-week seminar in Beijing and Guizhou provinces

SKILLS

Software Skills
Swift, C, Go, HTML/CSS, Python/Flask, JavaScript, Node.js/Electron, Ruby

Design Skills
Graphic Design, Web Design, CAD Modeling, 3D Printing, Silicone/Plastic Molding

AWARDS

Flinn Scholar   **Fall 2013**
- Chosen as one of the top twenty graduating high school seniors in the state of Arizona
- Applied and interviewed and was awarded a scholarship valued over $100,000

University of Arizona National Scholar   **Fall 2013**
- Awarded a scholarship from the University of Arizona due to National Merit Scholarship Finalist standing

Thomas R. Brown Scholar   **Fall 2013**
- Selected as one of the top incoming engineering freshman at the University of Arizona, receiving a $20,000 scholarship

PASSIONS

Travel, camping, rock climbing, haiku poetry, photography, songwriting & music production