

Maxwell Gerber

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EDUCATION

University of California, Berkeley, 3.81 GPA, Dean's Honors

May '18

- B.S. Electrical Engineering and Computer Science
- Minor in Mechanical Engineering
- **Coursework:** Computer Architecture, Data Structures, Unix Systems, Discrete Math and Probability Theory, Vehicle Dynamics and Control, Manufacturing and Tolerancing, 3 Dimensional Modeling for Design

SKILLS

Programming Languages

- C/C++, MIPS, Logisim, Java, Javascript, Python 3/2, MATLAB, Scheme, NI Labview, CSS, HTML

CS Frameworks and Software

- JUnit, Javax Swing, UNIX, SQL, MongoDB, Amazon Spark

ME and EE Software

- Solidworks, Autodesk Inventor, Cura, EAGLE, Word, Powerpoint, Excel

EMPLOYMENT

DosePack LLC, Electrical/Mechanical Engineering Intern

Feb '15 - Nov '15

- Developed pharmaceutical automation technology in collaboration with senior engineers
- Rapid electronics prototyping using ATMEGA and embedded *NIX systems
- Heavily utilized laser cutting, 3D printing, and sheet metal design technologies
- Worked closely with contacts in India and China to develop low-cost manufacturing solutions
- Facilitated design of numerous injection molded parts currently in production

Residential Student Computing, Network Engineering Assistant

May '15 - July '15

- Maintained and serviced 9000+ in-room connections and 1000+ access points in student housing
- Provided technical support for 100+ MICROS POS systems on campus and in Berkeley area
- Utilized ticketing system to provide efficient and engaging customer service to students
- Installed and maintained extensive network of CATV receivers, amplifiers, and splitters

BJ'S Wholesale Club, Cart/Stock Receiver

May '14 - Aug '14

- Independently assisted customers in a physically intensive job environment

Subway of Ringwood, Senior Sandwich Artist

June 13 - Feb 14

- Supervised and taught proper procedures for customer interaction, preparation of food, cleanliness
- Monitored and utilized Point of Sale system and assisted in inventory maintenance

PROJECTS

Minesweeper-Java

Dec '15

- Linux-native minesweeper clone with integrated self-solving AI and interactive UX
- Developed in Java using Oracle's Javax Swing windowing API

TextTeach

Nov '15

- HackEDU 2015 project for enabling people to receive educational materials over SMS
- Built using Flask, Twilio API, Wolfram API, and several Python webscrapers

Smart Manual Pill Filling Station

Sept '15

- Developed mechanical design and electrical layout for web-enabled manual pill filling station
- Worked closely with software development team to integrate with Meditab EHR API

Pill Dispensing Canister

July '15- Aug '15

- Utilized Solidworks and design analysis techniques to create motorized plastic single-dose pill dispenser
- Created informative documentation and working drawings to share with colleagues
- Worked closely with contacts in India to finalize design and begin production of injection molded parts

LEADERSHIP AND INVOLVEMENT

Delta Upsilon Fraternity, VP Academic Excellence

Dec '15 - Present

- Interviewed candidates for Spring 2016 Charlie Coords Memorial Scholarship and organized celebratory dinner
- Led weekly study tables and organized tutoring sessions for struggling students

Delta Upsilon Fraternity, Webmaster

Sept '15 - Dec '15

- Responsible for maintaining website as well as in-room wireless connections

Eagle Scout

July '13

- Planned and supervised restoration of 7 miles of trails in Ringwood State Park
- Raised funds and supplies from local companies