DAVID BAUM
431 S. Rodeo Dr.
Beverly Hills, California 90212
(310) 467-8902
davidandrewbaum@gmail.com

EDUCATION

University of California Los Angeles   2017-Present
- Electrical Engineering Undergraduate

WORK EXPERIENCE

The Aerospace Corporation Intern   Summer 2017
- Developed automated Failure Modes and Effects Analysis (FMEA) generation program
  - Improved feasibility of FMEAs to reduce costs and labor and to create reliable systems
  - Programmed integrated plug-in for Cameo Systems Modeler
- Learned and applied MBSE, SysML, Java tools, and Agile Development techniques
- Presented work before management and other coworkers

UCLA Biomechatronics Lab Volunteer   Summer 2016
- Created arm-fitting, fabric tactile-sensor sleeve for human arms
  - Manufactured and tested sensitivity of tactile sensors
- Programmed computer arm 3D model based on accelerometer and gyro sensor input in Python
- Programmed automated data-gathering program from Arduino serial inputs in Python

Los Angeles Computing Circle, UCLA School of Engineering   Summer 2016
- Assisted UCLA instructors to teach high school students Computer Science topics

Beverly Hilton Hotel   Summer 2015
- Internship in information technology
  - Website development
  - Security technology support
  - Upgrade client workstations, hotel network, and hardware floor plans

UCLA SMARTS Program   Summer 2015
- Mechanical engineering lab assistant
  - Assisted in development of magnetometers using refractive indices of light
  - Poster and PowerPoint presentation of experimental findings

SKILLS AND ABILITIES

- Software development (Java, C++, Python, Matlab, Javascript, C#, Android, Arduino, Mbed)
- Model Based Systems Engineering (SysML, Cameo Systems Modeler)
- Version control systems (Git, Github)
- Soldering and circuity
- Image editing software (e.g. Photoshop)
- Linux and Bash
- Assembling and fixing computer hardware

ACTIVITIES AND LEADERSHIP

Beverly Hills High School FIRST Robotics Competition (FRC) Team Leader   2013-2017
- Captain of the Programming and Electrical team
- Co-president of the Robotics team
- Programmed the team robot for four years
  - Worked on image processing, gathering input of peripheral devices, and control loops
  - Lead robot and mobile applications programmer
- Designed and wired robot's electrical system
- Responsibilities include: teaching programming and electronics, organizing and managing team

Community Service / Norman Tech Squad Vice President   2014-2017
- Assisted Beverly Hills High School faculty with technology support

Beverly Hills High School Jazz Band, Marching Band, and Symphonic Band   2013-2017
- Trombone section leader