Joshua Field

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Education

Northeastern University | Candidate for BS in Electrical & Computer Engineering

Boston, MA

GPA: 3.88 | **Graduation Date:** May 2022
Relevant Courses: Calculus 3 | Differential Equations | Embedded Design | Discrete Structures | Digital Design & Computer Architecture
Activities: IEEE | AIAA | NUAV Project Lead

Arcadia High School

Arcadia, CA

GPA: 3.93 | **SAT:** 2120 **Graduation Date:** June 2017
Activities: Boy Scouts | Marching Band Section Leader | Varsity Goalkeeper | Taekwondo 3rd Degree Black Belt
Awards: Eagle Scout | National Merit Commended Scholar | AP Scholar with Distinction

Experience

College of Engineering Connections Computer Lab | Lab Assistant — Jan '18 - Present

Boston, MA

- Monitor lab and equipment usage
- Assist students with computer applications and maintain lab cleanliness

California Institute of Technology | Research Engineering Intern — May '18 - Aug '18

Pasadena, CA | Python, AWS, Arduino, Android Studio, SQLite

- Developed a smart maintenance sensor network that monitors the treatment of waste water using an Arduino & Raspberry Pi
- Coded an Android app using Android Studio, NoSQL & Amazon Web Services (DynamoDB, IoT, Cognito, Lambda)

Northeastern University ResMail | Mail Services Associate — Oct '17 - Dec '17

Boston, MA

- Sorted and delivered mail, as well as audited and updated the university database

Johns Hopkins Engineering Innovation | Summer Course — Jun '16 – Aug '16

Pasadena, CA | SolidWorks

- Built the strongest spaghetti bridge in course competition using truss analysis
- Reverse engineered and rebuilt a light sensing robot

Skills

Programming: Java, C++, Python *Familiar with* C, MATLAB, LaTeX, SQLite, Verilog
Computer: Android Studio, AWS, Simulink, SolidWorks, AutoCAD, Adobe Photoshop

Projects

Piezoelectric Keyboard — Fall '17

Arduino, SolidWorks, AutoCAD

- Attached piezoelectric sensors to a keyboard and measured the power generated with an Arduino
- Presented at the 2018 Northeast ASEE Conference

Wiimote Robotic Arm — Spring '18

C++, Simulink, FPGA

- Created a Simulink program to generate PWM signals on a ZedBoard FPGA, to control servos in the arm
- Coded a C++ program to connect the bluetooth signals of a Wiimote to interact with the FPGA