

# Justin Adams

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Seeking software engineering internship Summer 2019

## EDUCATION

### **NORTHEASTERN UNIVERSITY** **BS|MS IN COMPUTER ENGINEERING** **MINOR IN MATHEMATICS**

May 2021 | Boston, MA  
GPA: 3.94 / 4.0  
National Merit Scholar  
Dean's List  
IEEE Workshop Coordinator  
ECE Student Advisory Board  
Club Hearthstone Team

## COURSEWORK

### **GRADUATE**

Machine Learning

### **UNDERGRADUATE**

Computer Architecture  
GPU Computing  
Digital Logic  
Algorithms  
Embedded Design  
Networks  
Electronics  
Circuits & Signals  
Topology  
Differential Equations  
Linear Algebra  
Calculus  
Discrete Structures

## SKILLS

### **LANGUAGES**

C++ • Python • Verilog  
MATLAB • Bash • VBA

### **TECHNICAL EXPERIENCE**

Linux • CUDA • Git • Simulink  
Solidworks • SPICE • Soldering

### **OTHER LANGUAGES**

Working proficiency in Spanish

## RESEARCH

### **NUCAR LABRATORY**

Project IOCANE | Fall 2018  
Developed security attacks and defenses in an IoT Network  
Partnership with Draper Labs  
Participated in national competition

## EXPERIENCE

### **DESKTOP METAL**

**SOFTWARE ENGINEERING CO-OP | FIRMWARE TEAM**  
Jan 2018 - July 2018 | Burlington, MA

- Developed software for machine vision protocol, increasing precision of 3D metal printer
- Automated printer manufacturing process to increase performance and decrease cognitive load on technicians
- Tested software & firmware systems, isolating root-causes to communicate back to lead developers
- Helped elaborate and refine on product requirements
- Organized after-work pickup soccer league and world cup viewing events

### **JOHNSON & JOHNSON**

**ENGINEERING INTERN | CONSUMER R&D**  
June 2017 - August 2017 | Skillman, NJ

- Created MATLAB program to automate image processing, improving accuracy while maintaining speed
- Critically analyzed scientific literature to research mechanism behind unknown chemical process

### **NORTHEASTERN UNIVERSITY**

**ENGINEERING TUTOR | COLLEGE OF ENGINEERING**  
Sept 2017 - Present | Boston, MA

- Assisted students with C++, MATLAB, physics, and calculus

**CORNERSTONE TEACHING ASSISTANT | COLLEGE OF ENGINEERING**  
Sept 2018 - Present | Boston, MA

- Integrated service component into project-based class, connecting students with community & furthering classroom learning goals

### **PRINCETON SOCCER EXPERIENCE**

#### **ASSISTANT MANAGER**

Summer 2016; Summer 2017 | Princeton, NJ

- Aided in writing a successful loan request by conducting research and drafting
- Took inventory of entire store and created a system to better track sales

### **MONTGOMERY TOWNSHIP VOLUNTEER FIRE COMPANY #2**

#### **INTERIOR FIREFIGHTER & PUMP OPERATOR**

Jan 2011 - Present | Montgomery, NJ

- Operated in stressful environments, displaying professionalism to public
- Achieved national certification after passing exams in 205-hour class

## PROJECTS

### **FACIAL RECOGNITION-POWERED DOOR** Summer 2018

- Leveraged Python facial recognition library and OpenCV to process video
- Deployed on embedded device to trigger remote server action for opening door

### **SWORD-FIGHTING ROBOTS** Spring 2017

- Motion mapped a Wiimote to a robotic arm using a ZedBoard over Bluetooth
- Programmed arms to hold fake swords, allowing two users to fence virtually