

# Jacob A. Manning

– address and phone number intentionally omitted –

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## EDUCATION

**BS, Computer Engineering, University of Pittsburgh**

Expected May 2019. GPA: 3.82

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## TECHNICAL EXPERIENCE

### Relevant Coursework

- Data Structures, Computer Organization and Assembly Language, Analysis and Design of Electronic Circuits, Digital Laboratory, Digital Logic, Intermediate Programming using Java, Linear Circuits

### Programming Languages

- Java, C/C++, Python, HTML/CSS, MATLAB, UNIX, JavaScript, Ruby, PHP, SQL  
- Learned through formal education and independent study. Work online on personal website and GitHub

### Undergraduate Research Experience

9/2016 – present

- National Science Foundation Center for High Performance Reconfigurable Computing (NSF CHREC)  
- Worked with parallel programming using OpenMP in C/C++ and basic machine learning in Python

### Swanson School of Engineering Freshman Engineering Conference

1/2016 – 4/2016

- Presented and co-authored technical report “Stretchable Transparent Electrodes Made with Nanotrough Networks of Metallic Glasses for Wearable Heaters and Electronics”

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## WORK EXPERIENCE

### University of Pittsburgh, Office of Residence Life

8/2016 – present

*Resident Assistant – First Year Engineering Living Learning Community*

- Planned, organized, and executed initiatives in residence hall and in the University as a whole  
- Served as a resource, mentor, and leader for a floor of 56 first year engineering students  
- Received regional and campus-wide recognition for job performance

### University of Pittsburgh, Academic Resource Center

9/2016 – 12/2016

*Tutor – PHYS 0174 / PHYS 0175 (calculus-based physics 1 and 2 for engineers)*

- Taught topics such as mechanics, electricity, and magnetism  
- Worked in one-on-one appointments with up to five students each week

### Dunkin’ Donuts

5/2016 – 7/2016

*Team Member*

- Quickly mastered job responsibilities, trained new employees

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## INVOLVEMENT

University of Pittsburgh Chapter of American Institute of Aeronautics and Astronautics (AIAA) – Membership Chair, University of Pittsburgh – Design Hub, University of Pittsburgh Emerging Leaders Program, Boy Scouts of America – Eagle Scout