

Jacob A. Manning

– address and phone number intentionally omitted –

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EDUCATION

University of Pittsburgh

BS, Computer Engineering, expected May 2019. GPA: 3.82

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

1/2017 – present

National Science Foundation Center for High Performance Reconfigurable Computing (NSF CHREC)

- Use OpenMP in C/C++ for parallel stereovision applications
- Study neural networks and machine intelligence for ARM devices
- Analyze next-gen space processors to calculate device metrics

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”

WORK EXPERIENCE

University of Pittsburgh, Office of Residence Life

8/2016 – present

Resident Assistant – First Year Engineering Living Learning Community

- Plan, organize, and execute initiatives in residence hall and in the University as a whole
- Lead, mentor, and serve as a resource 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
- Tutored dozens of students in one-on-one appointments

Dunkin’ Donuts

5/2016 – 7/2016

Team Member

- Quickly mastered job responsibilities, trained new employees

INVOLVEMENT

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