

Matthew William Walker

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EDUCATION

Bachelor of Science, 2020

Major: Computer Engineering (ABET Accredited)

Ohio Northern University

GPA: 2.94

WORK EXPERIENCE

Cyber Security Engineer, KBR

June 2020 - Present

- Developed multi-platform C-based applications used in military environments
- Designed and wrote python code to operate on a Raspberry Pi using the PySerial library
- Performed reverse engineering techniques on various hardware and software components
- Integrated various large libraries into an existing codebase (SQLite, Windows API, etc.)
- Worked in an agile team-based environment utilizing source control (git)

Electrical Engineer, Ohio Northern University

Summer 2019

- Redesigned the physical LED lighting system behind 'Inspiration' tower
- Wrote an Arduino program to interact with the tower and execute various themes
- Developed a GUI for a user to interface with and execute code on the Arduino

Research Assistant, Ohio Northern University

Summer 2017

- Researched new assessment practice that is implemented in all first-year engineering classrooms
- Tracked student learning throughout their entire collegiate career

TECHNICAL PROFICIENCIES

- **Programming Languages:** Assembly, C, C++, C#, Java, MATLAB, Swift, PHP, Python
- **Operating Systems:** Linux, MacOS, Windows
- **Hardware:** FPGAs, ARM Processors, Raspberry Pi, Arduino/Various Microprocessors
- **Networking Principles:** Network Design and Troubleshooting, Routing, Security, Firewalls, NAT

RECOGNITIONS AND PUBLICATIONS

- **Building Inspiration:** A video highlighting the construction of the 'Inspiration' crystal tower in the James Lehr Kennedy Engineering Building at Ohio Northern University
https://www.youtube.com/watch?v=bfbZNGN_HAQ
- **A B or not a B?:** Published paper in the 2018 American Society for Engineering Education journal focusing on various new methods of grading collegiate engineering students
<https://peer.asee.org/29655>

RELATED UNIVERSITY COURSEWORK

Computer Architecture
Computer Networks
VLSI System Design
Embedded Systems

Digital Signal Processing
Operating Systems
Networks and Data
Communication

User Interface Design
Data Structures and Algorithms
Electronics
Microprocessors

UNIVERSITY INVOLVEMENT

Kappa Kappa Psi, Ohio Northern University

2018 to Present

Phi Mu Alpha Sinfonia, Ohio Northern University - President

2017 to Present