

# Robert Borrelli

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## Education

### Drexel University

Philadelphia, Pennsylvania

Bachelor of Science in Computer Engineering

Sept 2014 – June 2019

Master of Science in Artificial Intelligence and Machine Learning

Sept 2021 – Present

**Relevant Coursework:** Data Structures & Algorithms, Systems Programming, Parallel Architecture

## Skills

Languages: Python, C, C++, Java, C#, Bash, Matlab

Technologies: Microsoft Azure, Git, Visual Studio, Linux Redhat Enterprise, LabVIEW

## Professional Experience

### Computer Engineer – Automated Test Equipment

Lakehurst, NJ

Naval Air Systems Command

June 2019 – Present

- Developed user-friendly GUI application for smart-card authentication of Linux based machines
  - Designed user interface with **Python's** PyQt library
  - Utilized **Bash** PKCS commands to map smart-card certificates to user accounts
  - Resulted in lowering cybersecurity risks of Linux machines by allowing 2-factor authentication
- Developed signal adapters and unit tests for electronic Consolidated Automated Support System (eCASS)
  - Developed signal adapters for serial communication protocols using **C#**
  - Performed unit testing of signal adapters to ensure desired functionality
- Assisted in Engineering Investigations, Testing and Repair of Navy automated tested equipment
  - Upgraded resistor array of Fleet-Issued Diagnostic Avionics Testers
    - Replacement resistors with heat fins resulted in safe operating temperatures
  - Assisted in schematic development, manual modification, and repair of Air Refueling System Test Set
    - Resulted in the Navy's increased ability to troubleshoot and repair this test set

### Desktop Support Analyst Intern – IT Support Team

Langhorne, PA

Bayada Home Health Care

Sept 2015 – Mar 2016

- Assisted company employees with hardware, software, and network problems
- Tested cloud backup software on company machines
- Distributed software through Dell's KACE database
- Diagnosed and Replaced hardware of company desktops and laptops

## Projects Experience

### Hippotherapy Monitor

Philadelphia, PA

Drexel University

Sept 2018 – June 2019

- Collaborated with Occupational Therapists to create pressure monitoring device for hippotherapy treatment
- Collected and output sensor data using **Python** and Arduino
- Resulted in the use of data to aid in hippotherapy saddle design

## Certifications

CompTIA Security+

IPC J-STD-001 Soldering