

# Kenwood Harris Jr

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## Education

### BOSTON UNIVERSITY COLLEGE OF ENGINEERING | BOSTON MASSACHUSETTS

- Bachelor of Science Computer Engineering Expected May 2020
- Minor Electrical Engineering Expected May 2020
- Concentration Technology Innovation Expected May 2020

### ASSOCIATIONS AND CLUBS

- Society of Manufacturing Engineers (SME) – Secretary
- National Society of Black Engineers (NSBE)

## Technical Skills and Abilities

C, C++, Delphi, Assembly, Verilog, Embedded Systems/Linux, Javascript, Nodejs, Python, PCB Layout, EagleCAD, GIT, Jenkins, RTOS, MQX, USB, Compiler/Linker Optimization, Debugging Tools, ARM, Digital VLSI, CUDA, Cadence

## Experience

### EMBEDDED SYSTEMS ENGINEERING INTERN | P&E MICROCOMPUTER SYSTEMS | MAY 2018 – PRESENT

- Detailed and in-depth development of ARM systems and debuggers. Worked independently to develop real-time ARM debugger utilities and software. Currently employed.

### UNDERGRADUATE RESEARCH ASSISTANT | BU ELECTRICAL AND COMPUTER ENGINEERING | MAY 2017 - JAN 2018

- Work Focused on the development of Visible Light Communication (VLC), and Multimedia Communications. Worked to integrate IOT systems and servers, integrate testing equipment, and continue development for data accumulation for the school of public health. (SLURP) (MCL)

### PYTHON TEACHING ASSISTANT | VIRGINIA STEAM ACADEMY | JULY 2017

- Taught young students introductory programming techniques, electrical systems, and robotics. Students were taught python, and basic OOP.

## Selected Projects

### ARM DEBUGGER EXTENSION | INTERNSHIP PROJECT | SUMMER 2018

- Debugger tool for ARM devices utilizing the GNU compiler. Tool captures entrance/system information at pivotal points of a process, allowing users to clearly debug applications in real time. Utilizes DWARF debugging standard. Tool written in C, ARM assembly, Delphi, and Java.

### IOT SERVER | INDEPENDENT PROJECT | SUMMER 2017

- Local server designed to sync and regulate connected devices. Written in Node JS, the system allows devices to send Webhook and HTTP requests to update and sync data files. System was created to accumulate sensor data across various devices despite their architecture, by accepting JSON formatted data. Project on Github.

### FIRMWARE COMPATIBILITY AND MANAGEMENT | INTERNSHIP | 2018

- Worked to update, modernize, and port all company firmware for all products to new compiler, and new architecture/platform. Worked to allow easy portability of existing firmware for future systems. Extensive work was done on creating compiler/architecture independent code as well as work with MQX, RTOS', and various compiler and linker systems. Systems were tested and optimized for reliability, and performance.