

DOMINIC A. OTTAVIANO II

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- U.S. Citizen -

OBJECTIVE

Computer engineer from Georgia Tech who specializes in embedded hardware and software development. Has a strong background in high and low level firmware development, hardware design, low power wireless, and feedback control systems. Experience designing and developing both consumer and industrial electronics.

EXPERIENCE

October 2017 – November 2019 **Interactive Technologies** Olathe, KS

Computer/Electrical Engineer

- Developing C/C++ firmware for microcontrollers to enable local logical control and wireless communication with other embedded hardware and Android Apps.
- Creating Android Apps in C# using Xamarin Android to interface with embedded hardware as well as perform OTA programming.
- Extensive use of wireless protocols such as Bluetooth LE, ANT, and SMAC in a wide variety of applications.

January 2017 – October 2017 **Paranoia Quest** Buford, GA

Computer/Electrical Engineer

- Developed C/C++ firmware for microcontrollers to provide logic and control to various puzzles and interactive props.
- Create a C# software suite for staff to manage the customer's experience.
- Set up and managed the company network systems using virtualized Linux servers. Provided RADIUS authentication for both network and application access. Centralized all information to keep software on all company terminals in sync.

August 2013 – July 2017 **Help U Publishers** Lawrenceville, GA

Electronic Publishing Specialist

- Prepared books for digital and print distribution on a variety of eBook readers.
- Created and modified graphic content for many publications using Adobe Photoshop, After Effects, and Premiere Pro.

SKILLS

- Experience using microcontrollers in real world projects using various sensors and mechanical outputs as well as implementing control systems logic.
- Practical knowledge of various wireless protocols such Bluetooth LE, ANT Wireless, and SMAC.
- Experience in Android App development in C# that can interface with embedded hardware over Bluetooth LE.
- Familiar with controller protocols including SPI, I²C, Serial/UART, and many more.
- Exposure to Software Defined Networking and various networking protocols including OSPF, BGP, and others on Cisco and Juniper systems.
- Experience with C/C++, PHP, HTML, and MATLAB with exposure to VHDL, SQL, and CSS.
- Proficient with both Windows and Linux OS as well as Linux server distros.
- Capable in production software suites including IAR EWARM, Keil uVision, Altium, Eagle, Xamarin Android, Code Composer Studio, Photoshop, After Effects, Premiere, Acrobat, and the Microsoft Office software suite.

EDUCATION

- 2013 – 2015 **Georgia Institute of Technology** Atlanta, GA
- B.S. Computer Engineering
 - Overall GPA: 3.14/4.0
- 2010 – 2012 **Southern Polytechnic State University** Marietta, GA
- Regents' Engineering Transfer to Georgia Tech for Computer Engineering.
 - Overall GPA: 3.36/4.0

PROJECTS

- December 2015 **Worker Safety and Monitoring System** Georgia Tech
- Designed a system for real time tracking of a variable sized array of node devices.
 - The system consisted of several modules including a GPS, microcontroller, and wireless transceiver.
 - Developed firmware in C/C++ for an ARM MCU embedded in a custom designed PCB.