Tanner Muldoon

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U.S. Citizen

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I'm a recent graduate from **Georgia Tech** currently working at **L3Harris Technologies**. I have sizeable personal experience with **real-time software**, both with **embedded RTOSes** and user-facing software such as video games. My main concentration is in **embedded systems engineering**. At my current workplace, I work primarily in **digital signal processing** for **software defined radios**.

Education

Georgia Institute of Technology | Atlanta, GA

Bachelors of Science in Computer Engineering, GPA 3.74 **June 2016 — May 2019**

- Graduated with Highest Honors
- Minor in Computer Science and Systems & Architecture

Work Experience

L3Harris Technologies | Sunrise, FL

Associate, Software Engineering **June 2019 — Present**

L3Harris is an aerospace and defense technology company, and a leading provider of tactical radios

- Engineer working on digital signal processing C code for HF radios
- Designed a new PSK modem implementing the HFDL protocol at the physical layer, with TDMA scheduling
- Implemented a new software AM demodulator to improve AM performance in the presence of doppler shift

Georgia Tech Research Institute | Atlanta, GA

Student Research Assistant **May 2018 — August 2018**

Electronic Systems Lab (ELSYS) at GTRI specializes primarily in electronic warfare

- Designed a system convert realtime image data from a backend simulator (OpenEaagles) to API calls for the external frontend program (Prepar3D)
- Created a multithreaded proxy server to exchange UDP data with OpenEaagles and make RPC calls to Prepar3D
- Delivered the functioning system for demonstration after 1 month of work, with an accompanying ICD (interface control document)

Georgia Institute of Technology | Atlanta, GA

Head Teaching Assistant for Systems and Networks **August 2018 — May 2019**

Teaching Assistant for Systems and Networks **January 2018 — May 2018**

Intro computer architecture and operating systems course, typically with 250-300 students

- Managed a team of 12 TAs
- Supervised the creation, release, and grading of assignments, including weekly homework assignments and biweekly projects
- Handled the administrative overhead of the course, such as fielding emails from students, and providing and updating course information such as grades and assignment schedules

Skills and Concentrations

General Concentrations:

- **Embedded software**
- **Real-time systems and RTOS**
- **Digital signal Processing (DSP) and embedded transceivers**
- Server backend code
- Physical layer networking
- Operating systems and device drivers

Languages: Mainly **C**, **C++**, also proficient in C#, Java, Python, Matlab/Octave, and client- and server-side Javascript

Familiar Platforms: Linux, Arduino, Raspberry PI, TI C55xx, Native Windows, .NET

Source Control: Git, SVN