

SEAN M. DUFFIE

2095F Lake Park DR SE
Smyrna, GA 30080

Cell: +1 (832) 517-7130
Email: duffiesean@gmail.com

OBJECTIVE

Seeking a Full-Time position in the field of Software Engineering with an Embedded background. I currently hold an active Secret-level Security Clearance.

EXPERIENCE

Georgia Tech Research Institute , Smyrna, Georgia	January 2024 – Present
<i>Software Research Engineer I</i>	
<ul style="list-style-type: none">• Hold a Secret-level Security Clearance while analyzing software binaries.• Designed software/plugins to interpret hardware protocols and RF comms using tools like Wireshark or Saleae Logic.• Analyzed software and firmware using Ghidra and IDA Pro.	
Lynntech inc. , College Station, Texas	September 2021 – January 2024
<i>Embedded Software Engineer</i>	
<ul style="list-style-type: none">• Lead a team of ~8 people to construct a database and media tagging system for our training data.• Worked with OpenCV to identify/recognize various objects – including faces.• Worked with Android Studio to make an app on an RFID Reader.• Reorganized the company's policies on Git Project Management.	
<i>Embedded Engineering Technician</i>	
<ul style="list-style-type: none">• Designed and assembled custom PCB boards for company projects using Altium Designer.• Worked with OpenCV and Pygame to develop an image processing software with a fast, multithreaded GUI.• Worked with MAGMA and CUDA to develop an algorithm to run on a multi-GPU system.	
12th Man Technologies , College Station, Texas	May 2021 – September 2021
<i>Student Ambassador</i>	
<ul style="list-style-type: none">• Diagnosed and documented issues with laptops that were checked in to us for repair or maintenance.	

EDUCATION

Georgia Institute of Technology , Atlanta, Georgia	August 2025 – Present
Degree: Masters of Computer Science (In Progress)	
Texas A&M University , College Station, Texas	August 2018 – May 2023
Degree: Bachelor of Science in Electronic Systems Engineering	Minors – Computer Science, Cyber Security

SKILLS

Software Experience:

- Most personal projects have been done in Python; most work projects have been done in C/C++ or Assembly.
- Leadership experience with Git Project Management and CI/CO.
- Extensive experience with OpenCV and Image Processing.
- Magma multi-GPU processing, multiprocessing/threading.
- Designed various UI using Qt, Pygame, uGFX, or Flask/JS/CSS.

Hardware Experience:

- PCB Design on Altium. Soldering and assembling boards in-house.
- Debugging Hardware connections with an oscilloscope, Saleae, or Wireshark.

ACTIVITIES

Aggie Coding Club	August 2018 – May 2021
<i>Project Team Member</i>	
Boy Scouts of America	2005 – 2018
<i>Eagle Scout</i>	
<ul style="list-style-type: none">• Experience in leadership positions including Patrol Leader, Historian, Quartermaster, and Master of Ceremony.	
Personal Projects	
<ul style="list-style-type: none">• Capstone Role: Software Lead, designed a portable and budget-friendly embedded device to monitor local storm data.• Designed custom PCB for an ESP32 Wi-Fi chip to integrate non-smart devices with IoT capabilities.• Built a Flask server on a Raspberry Pi home server to conveniently control all of the devices from the above project.• Automated Gardening system using microcontrollers with data collection for research under different conditions.• See more detailed examples and descriptions on my GitHub page: (https://github.com/SeanDuffie)	