

John F. Landrum

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Summary

Recent university graduate with experience developing software solutions to work with provided hardware. Skilled at developing software system testing procedures, providing proper documentation for code, and collaborating with other engineers. Excels at being detail-oriented in a fast-paced environment and being flexible in stressful scenarios.

Skills

Programming: Java, Python, C, C++

Platforms: Linux (Ubuntu)

Hardware: ARM mbed microcontroller, FPGAs, oscilloscope, logic analyzer, myDAQ, Verilog, VHDL

Software: Android Studio, Altera Quartus Prime, NI LabVIEW, VSCode

Communication: Design proposals, technical reports, instruction manuals, presentations (large and small audiences)

Languages: English (native), German (beginner)

Coursework Projects

mbed Video Game

October-December 2021

Programming Hardware/Software Systems

Program a video game using C++ and multiple files.

- Analyzed limitations of ARM-based hardware kit and developed software (C++) to create video game.
- Programmed controls for video game from accelerometer and button inputs. Created graphics and speech for game.
- Created hash table and linked list to manage items in game; whole project completed in around two months.

mbed Weather/Environment Sensor

November-December 2023

Embedded Systems Design

Program sensors to interface with an LCD to record temperature, humidity, and other measurable features.

- Write C++ code to display data from a weather sensor onto an LCD.
- Test sensor to determine data output from instruments on weather sensor.
- Found and utilized color codes to add visual display for air quality.

Education

Georgia Institute of Technology | Atlanta, GA

August 2020 – May 2024

Bachelor of Science in Computer Engineering

Georgia Tech Lorraine | Metz, Grand Est, France

May 2022 – August 2022

Study Abroad for 10 Credit Hours, GPA 3.70

Experience

Georgia Institute of Technology | Atlanta, GA

August 2020 – May 2024

Student

- Worked on coursework projects to improve professional and programming skills.
- Managed time efficiently to achieve deadlines on coursework projects.
- Cooperated effectively with other students on coursework projects.

Leadership

Georgia Tech Lorraine Student Board | Metz, France

May 2022 – August 2022

President

Georgia Tech Baptist Collegiate Ministry | Atlanta, GA

May 2023 – May 2024

Campus Involvement Leader

SendMeNow Mission Trip | Tucson, AZ

May 2023

Student/Participant