Samuel Micah

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HackerRank | **Github** | **LinkedIn**

View Portfolio

Dedicated Software Engineer developing innovative software solutions with a deep love for open source and sustainable technology. A challenging project should be considered done.

RELEVANT EXPERIENCE

F1 Track, *Unity, Firebase, HTML, CSS, JavaScript — Hackathon Project*   2019
- Game Concept: Record racing lap time on Monza map onto a global leaderboard hosted on firebase cloud server.
- Designed all game assets and programmed all game physics and gameplay logic.
- Innovative solutions to problems with limited time as it was a hackathon project made in 48 hours.

Autonomous Vehicle, *C++, OpenCv, CAD, NodeRed, Raspberry pi, LtSpice, Arduino — University Applied Engineering Coursework*   2022
- Worked on designing and prototyping a fully autonomous vehicle that used a camera on a Raspberry pi to manipulate the camera feed using the OpenCV library to navigate its environment and was able to solve maze, line and object following paths.
- Designed a user interface using Node-Red to monitor the vehicle stats and its surrounding.
- Used C++ to calculate the PID movement from the camera feed on the Raspberry pi to an Esp32 via i2c to control the 3d printed mecanum wheels.

WebRTC, *HTML, CSS, JavaScript, Swift UI, Firebase — Personal Project*   2024
- App Concept: Video, audio and data channel communication via peer to peer stun/turn server. Works over any network architecture with a low network latency communication, ideal for social apps and miniature multiplayer games.
- This project was inspired by Discord's architecture and in pursuit to find free networking across all networking structures.
- Available on the **App Store** and **Web**.

EDUCATION

HyperionDev   Remote | Nov 2023
Software Engineering
Skills: Python,version control (Git, Github), Testing and Debugging,

University of Nottingham   Nottingham| Sep 2021
Electrical and Electronics Engineering
Skills: C, C++, Matlab, Fusion 360, LtSpice, Report Writing, Circuit (Analysis & Design), Open CV, node Red, IOT, Data Analysis, Raspberry pi, Arduino, Oscilloscope

The Warren School Sixth Form   London | Sep 2019
National Extended Diploma in Engineering
Skills: Health and Safety, Machining (Addictive and Subtractive Manufacturing), Risk Assessment, CAD

TECHNICAL SKILLS	Soft Skills
Swift, Python, C++, Matlab, C#, SQL, C, HTML, CSS, JavaScript	Problem Solver, Eye for aesthetic and design, Sociable, Team Player, Enthusiastic, Collaborative

EXTRA INFO

- Current hobbies include playing basketball, football, table tennis and video games.
- Passionate for music
- Interested in prototyping and travelling
- 8+ years developing Games and Apps using Unity Engine

REFERENCES

Available Upon Request