JOB JOSEF SANTOS

PENULTIMATE COMPUTER SYSTEMS ENGINEERING STUDENT

ABOUT ME

Hey there! I am currently seeking an **internship** role in tech-related areas preferably a **firmware** or **software development** position. With a passion for **programming,** I am eager to learn and develop my technical skills whilst gaining practical experience in the field.

SKILL

Software Development
Python, C#, Java, MATLAB, C

Advanced

Firmware Development
C, PSoC, Quartus Prime, Atmel Studio

Adept

Web Development
HTML, CSS, JS, ReactJS

Intermediate

INTERESTS

Muay Thai

Game Dev

Video Editing

Music

PROJECTS

Mar 2023 - Apr 2023

AI ASL PREDICTOR
github.com/JayJsan/AI-ASL-Python

- Uses **Machine Learning** to train models and predict letters from the American Sign Language
- Use of **Python**, **PyQt,** and **PyTorch**.
- Created the UI and interlinked the back-end and front-end.
- Collaborated in a team of 3

Sep 2023 - Oct 2023

VIRTUAL PACEMAKER
github.com/JayJsan/Virtual-Pacemaker

- A virtual pacemaker created on the **DE2-115 FPGA** board.
- Designed to simulate and pace heart events and read a virtual heart program from the PC.
- Use of **C, Quartus, Nios II Eclipse,** and **SCCharts**.
- Collaborated in a team of **2**

Aug 2023 - Oct 2023

MAZE TRAVERSAL ROBOT
github.com/JayJsan/Pathfinding-Robot-PSoC-5/

- Uses a **PSoC** and a team-designed **PCB** to traverse through a maze projected onto the floor.
- Use of **C, PSoC Creator**, **AStar** and **Dijsktra's Algorithms,** and **Circuit Design**.
- Collaborated in a team of **4**

EDUCATION

2021 - Present

Bachelor of Engineering (Honours)
The University of Auckland

2016 - 2020

NCEA Level 3
Birkenhead College
- **Merit** Endorsement
- **1st** in Yr 12 Japanese
- Yr 13 **Arts Council** Member

021-201-3292
job.santos924@gmail.com
North Shore, Auckland
github.com/jayjsan
linkedin.com/in/jobjosefsantos

REFEREES AVAILABLE UPON REQUEST

MORE PROJECTS AVAILABLE ON GITHUB