TAN LING JEN

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PROFESSIONAL SUMMARY -

A highly motivated Year 3 Electrical Engineering student with internship experience in software engineering. Actively looking for software-related internships and projects to embark on.

EDUCATION –

Bachelor of Engineering

National University of Singapore (NUS)

Aug 2021 - Present

- Major in Electrical Engineering, specialization in Internet of Things (IoT)
- Academics: GPA 4.27 / 5.00 (Honours with Distinction)
- Expected Graduation: May 2025

Relevant Modules: Programming Methodology I (*Python*), Microcontroller Programming and Interfacing (*ARM Assembly*, *C*), Introduction to Machine Learning (*Python*), Data Science for the Internet of Things (*Python*), Data Engineering Principles (*Python*, *AWS*)

Certifications: Introduction to Java Programming I by HKUSTx

WORK EXPERIENCE –

FPGA Engineer, Intern

DSO National Laboratories

May 2024 - Aug 2024

- Summer Internship to begin in May 2024.
- Training on the latest high-end FPGA structure, logic, memory performance, and high-speed data interfaces.
- Implementation and testing of FPGA architecture design on LLM's computing intensive modules.

Associated Skills: LLM Architecture and Processing Flow, FPGA Development, Verilog/VHDL

Software Engineer (Robotics), Intern <u>ST Engineering (Land Systems)</u>

Jan 2024 - May 2024

- Implemented and integrated modules for 3D path planning and navigation of Q-UGVs.
- Developed algorithms for effective and robust traversability analysis of terrain.

Associated Skills: C++, ROS, Ubuntu, Robotics Navigation, Bash

Systems Engineer, Intern

NCS Group (NCS Engineering)

May 2023 - Jul 2023

- Constructed interactive front-end UI for an active enterprise-level web application project utilizing React.
- Efficiently managed systems hardening of macOS devices for project deployments utilizing bash scripting.
- Troubleshooting and maintenance of hardware systems deployed across multiple exhibitions.

Associated Skills: React, JavaScript, HTML, OS Hardening, Bash, C#, Troubleshooting

R&D (Business Solutions), Intern

Panasonic R&D Center

May 2022 - Jul 2022

- Managed and co-authored the requirements analysis, system architecture, and wireframe design documentation.
- Modelled the prototyping and testing of LED display panel (Soft Soldering).

Associated Skills: Technical Documentation, Requirements Analysis, System Architecture

NSF Training Instructor, 3rd Sergeant Singapore Armed Forces (SAF)

Apr 2019 - Apr 2021

- Completed the Logistics Specialist Cadet Course (Transport) and achieved 3rd Sergeant rank.
- Oversaw and managed over 300 transport trainees on course in the School of Transport and Supply.
- Completed SAF Class 3/4 Driving Course at ST Engineering Land Systems.

Associated Skills: Leadership, People Management, Effective Communication

PROJECTS -

Spending Tracker (https://github.com/Jen999/spending-tracker)

Aug 2023 - Nov 2023

- Designed and developed an end-to-end Android app to address habitual spending, promoting financial responsibility.
- Pursued this personal project as an NUS credit-bearing <u>EG2606B Independent Work</u> module.
- Learnt full-stack mobile application development independently and UI/UX design under expert supervision.

Associated Skills: React Native, JavaScript, Firebase (Firestore, Cloud Functions), Figma

SKILLS & INTERESTS

- **Skills:** Python, C++, React, React Native, JavaScript, Firebase, HTML, CSS, ROS, Ubuntu, Robotics Navigation, Bash, Git, Web Development, UI/UX Design, Figma, Mobile App Development
- Languages: English (Native), Mandarin (Proficient)