WILSON **NG** Jing An

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EDUCATION

National University of Singapore (NUS)   Aug 2021 - Present
- Bachelor of Engineering in Computer Engineering
- Current Cumulative Average Point (CAP): 4.15/5.00
- Expected Date of Graduation: May 2024

Singapore Polytechnic (SP)   Apr 2016 – Mar 2019
- Diploma in Computer Engineering (Specialised in Computer Networking and Application)
- Grade Point Average (GPA): 3.93/4.00
- Vice-Captain of SP Table Tennis, Member of Singapore Polytechnic Outstanding Talent (SPOT), Member of SP EEE Student Ambassador

SKILLS AND ABILITIES

Programming Skills
- C, C++, Python, Arduino, Bare Metal Programming Language, Verilog Hardware Description Language (HDL), HTML, CSS, JavaScript, Svelte, Numpy, Scikit-learn toolkit.

Database Management
- MongoDB, mySQL, PostgreSQL

WORK EXPERIENCE

Transport Operator, Republic of Singapore Air Force (RSAF)   Aug 2019 – Dec 2021
- Trained newly return transport operators that recently graduated from SAF driving school to ensure that the transport operators are proficient to drive independently.
- Planned driving program and training schedule for the department with more than 30 members.
- Contributed to Tengah Airbase operations through over 4,000km of driving operation.

Software Engineering Intern,
Centre Strategic of Infocomm Technologies (CSIT)   Mar 2019 – May 2019
- Developed a data visualization software using Python programming language to allow key entities to be visualized in a nodal graph.
- Improved data visualization process through web scrapping and data cleaning.

RELEVANT PROJECTS

Embedded System Engineer, Remote Controlled Robot   Jan 2023 – Apr 2023
- Implemented a robot, powered by ARM Cortex M0+ that can be controlled through mobile application that sends instructions through UART with the use of ESP32.

- Improved efficiency using RTOS techniques such as Scheduling, Semaphores and Mutex to allow the robot to respond to instructions.

Software Engineer, Property Rental Manager   **Aug 2022 – Nov 2022**
- Developed a software application in Java as a module to learn Object Oriented Programming (OOP).
- Implemented exception handling strategies to improve the robustness of the software.

Full Stack Developer, MeetUps   **May 2022 – Jul 2022**
- Led a software engineering project that developed a web application for NUS students to identify their common slots.
- Maintained documentations and revision control that helps with future references.
- Improved MeetUps by adding venue filtering according to a given timetable.

Embedded System Engineer, Search & Rescue Robot   **Aug 2021 – Nov 2021**
- Built a Search and Rescue robot in a team of five using LiDAR sensor to conduct SLAM operations for a module project in NUS.

HACKATHONS AND COMPETITIONS

Software Engineer, Nus Timetable Checker   **14 Jan 2023 – 15 Jan 2023**
- Led a team of 4 members to develop a working telegram bot in Python that generates remaining timetable of the user for the rest of the week within 24 hours of Hack & Roll 2023.

Table Tennis Participants, POL-ITE Games 2018/2019   **Oct 2018**
- Coordinated with the coach to plan the line-up of 7 players for the matches against other polytechnics and managed to acquire the gold medal.

Community Services

Organising Member, iLed   **Oct 2017**
- Volunteered in a Student Led Initiative to promote technical education by teaching Tanjong Pagar residents Arduino Programming with age ranging from 12 to 70 years old.

AWARDS
- Certificate in NUS Orbital (Apollo 11) Level of Achievement
- Diploma with Merit (Diploma in Computer Engineering @ Singapore Polytechnic)
- Model Student Award
- SP EEE Director Honour Roll AY2016/2017 and AY2017/2018
- POL-ITE Games 2018/2019 Gold Medal (Table Tennis)
- CSIT Diploma Scholarship

ADDITIONAL INFORMATION
- Microsoft Skills: Excel (Including Macro), Word, and PowerPoint
- Languages: Fluent in English and Chinese (Both spoken and written)
- Proficient in Circuit Design, Computer Architecture and Web Development
- Familiar with Digital Signal Processing (DSP) knowledge