Marcus Chan

Student

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PROFILE

Motivated and detail-oriented student pursuing a Diploma in Aerospace Systems and Management at Nanyang Polytechnic, and recognized on the Director's List for academic excellence. Passionate about aerospace and programming, with strong technical skills and the ability to apply them effectively in real-world projects. Thrive in collaborative environments, contributing proactively with an approachable attitude. Committed to delivering high-quality, innovative solutions while continuously learning and adapting in dynamic settings.

SKILLS

- Google sheet / Excel
- Proficient in html, css, python
- E/A Math
- Advance calculus
- Attention to details
- Discipline in time
- Good communication
- Willing to learn anything
- Team player/management

EDUCATION

GCE O LEVEL : 16

MONTFORT SEC SCH

SECONDARY SCHOOL

2019-2022

NANYANG POLYTECHNIC

AEROSPACE SYSTEMS AND MANAGEMENT

GPA : 3.54/4.0

2023-2026

ACHEIVEMENTS

- Directrors list
- Edusave award

REFERENCE

Yong Keat Hew - Planning Team Lead

125 Airline Rd, Singapore 819829

+65 8725 5503

Albert Sng - Teacher

180 Ang Mo Kio Ave 8, Singapore 568930

+65 9683 2301

WORK EXPERIENCE

2022

SATS

PART-TIMER

CUSTOMER SERVICE AGENT

Assisted passangers traveling overseas with the self-checkin kiosk and the automated drop-off for the luggages.

- understand the airport operations
- Managed high-volume customer queries simultaneously through effective multitasking.
- Offered prompt solutions to maintain customer satisfaction.

2022-2023

SATS

PART-TIMER

OAL CREW HANDLER

Escort Flight Crew members to and from planes. Manage their route and baggages. Mostly cargo flights

- get to see the cockpits of planes and their operations
- work closely to pilots and got to understand more about airplanes
- learnt to communicate more effectively with collegaues and pilots
- Recording of infomations pertaining each freight flights and staffs

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MAR-AUG 2025

AIRBUS

IINTERNSHIP

PLANNING SUPPORT ENGINEER

I supported the maintenance planning team by managing aircraft records and ensuring documentation accuracy and compliance. I assisted in cross-checking technical documents across multiple systems, identifying discrepancies, and resolving issues to support smooth maintenance planning. I also contributed to the development of data tracking tools and automated spreadsheets, including the IK17 project, where I built a program in Google Sheets to automate daily data extraction and analysis of aircraft utilization. This tool improved efficiency by streamlining the tracking of flight hours, cycles, and aircraft age. Additionally, I assisted in the development and monitoring of project plans, supporting colleagues in ensuring smooth project execution.

- Reviewed, organized, and maintained aircraft maintenance records to ensure documentation accuracy and regulatory compliance.
- Cross-checked and verified technical documents across multiple systems, identifying and resolving discrepancies for effective maintenance planning.
- Developed and automated spreadsheets and tracking tools to streamline data management, reporting, and project monitoring.
- Developed the IK17 MasterList project, creating an automated Google Sheets program that extracted and analyzed daily aircraft utilization data, improving efficiency and accuracy in maintenance planning.

PROJECTS

Simplified flight control interface system (NYP School Project)

Developed a simplified flight control interface system that allows real-time control of multiple aircraft systems using two Arduino Nanos, MobiFlight, and Prepar3D flight simulator. Designed to replicate a basic cockpit interface, the system enables control over:

- Strobe, Navigation, and Landing Lights
- Landing Gear Operations
- Radio Frequencies

Key contributions:

- Circuit Design & Wiring: Designed all circuits from scratch, including schematic planning and wiring layouts, ensuring reliability before prototyping.
- Integration: Successfully integrated Arduino Nanos with MobiFlight software to interface with Prepar3D for a realistic simulation experience.
- Prototyping & Enclosure: Completed wiring and initial functionality testing before transferring the setup into a custom container for final presentation.
- Hands-on System Control: Enabled users to physically manipulate switches and knobs to control simulator outputs, enhancing the interactive learning experience.

Elder Guardian (NYP School Group Project)

Developed a prototype device aimed at improving the healthcare and safety of elderly individuals in homes, old folks' homes, or hospitals. The system allows guardians or caregivers to monitor the wellbeing and whereabouts of elderly individuals in real time.

Key features:

- Fall Detection & Motion Monitoring: Detects falling motions and movement to ensure prompt response in case of emergencies.
- Connectivity-Based Presence Detection: Uses Wi-Fi signals to monitor the presence of elderly individuals. When the signal drops below a predefined range, the system triggers an alarm and sends a notification to guardians.
- Prototype Design: Designed and implemented a working prototype that can be deployed in multiple environments for continuous elderly care monitoring.
- Collaborative Development: Worked as part of a team, contributing to system design, sensor integration, and testing of the prototype.

Japanese Stall Website (NYP School Project/Assignment)

Developed a fully functional static website for a Japanese food stall using HTML and CSS, featuring multiple interactive pages and user interfaces.

Key features:

- Home Page & Menu: Displays stall information and menu offerings with visually appealing layout.
- Order Food Interface: Allows users to browse menu items and place orders through an intuitive interface.
- Map Location: Integrates a map showing the physical location of the stall for easy navigation.
- Reviews & Ratings: Provides a section for customers to leave feedback and view existing reviews.
- Login & Membership Interface: Simulates user account creation and login for members to personalize their experience.

PROJECTS

IK17 Automation Program (Airbus Internship)

Developed a Google Sheets program with JavaScript to automate daily extraction and analysis of aircraft utilization data (flight hours, cycles, aircraft age). Improved efficiency by reducing manual workload and providing accurate, up-to-date insights for maintenance planning.

Key Features:

- Automated data extraction from shared Google Drive files, eliminating manual data entry and reducing errors.
- Implemented daily automated backups and master file restoration capabilities, ensuring data security and recovery.
- Designed a system to analyze and filter duplicate data while seamlessly integrating new datasets into a master list.
- Created dynamic, real-time graphs visualizing aircraft age, flight hours, and cycles, providing up-to-date insights for maintenance planning.
- Enabled easy data integration with other programs and Google Sheet/Excel files, facilitating data sharing and collaboration.

A380 Landing Gear Master List (Airbus Internship)

Created and maintained a comprehensive master list for landing gear components across 12 A380 aircraft, consolidating data from multiple sources (SAP, AMS, MPD). Built tracking features for flight hours, cycles, and life limits, with added search and alert functions to highlight components nearing replacement. Enhanced accuracy and usability for engineers managing critical maintenance planning.

Key features:

- Master list of all components used on all 12 A380 landing gear
- Tracking expiry of each landing gear component
- Dashboard for components expiring within 2-3 years