

Alvin Lee Ze Xian

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SUMMARY

Technical programme and product manager with over eight years of experience in systems engineering, complex systems integration, and product development. Led and implemented multiple projects ranging from large-scale systems design and integration to developing product strategy and design.

ACHIEVEMENTS

- Led the design of a command and control system by driving adoption of virtualization technology leading to 50% reduction of overall hardware footprint, and cost saving of approx. \$6M.
- Led the development of an emulator for a strategic system to facilitate realistic integrated training without the need for actual operational systems, achieving up to 65% manpower and logistical savings.
- Strategised and developed the product strategy for a video analytic platform, defining the system design and architecture, acquisition approach and implementation roadmap, establishing the vision and mission for the product.

EXPERIENCE

Programme Manager - Defence Science & Technology Agency **Sep 2021 - Present**

- Responsible for the management and delivery of multi-millions (>\$20M) large-scale projects. This includes the development of the programme management plan, ensuring the requirements are met within budget and schedule.
- Led a multi-disciplinary team to drive systems' technical design and architecting reviews, established system architecture, integration standards, system-of-systems implementation approaches and acceptance tests.
- Conducted comprehensive system and software safety analysis and assessment to ensure the safe operation of the systems.
- Developed product strategy, built a product team, identifying and creating opportunities to drive multi-year product implementation roadmap.

Project Manager - Defence Science & Technology Agency **Nov 2018 - Aug 2021**

- Responsible for the management and delivery of a multi-millions (>\$10M) medium-scale project within budget and schedule.
- Led a team of software developers and site-reliability engineers to design and

develop a transportable command and control system, and performed the integration and testing with more than five other systems.

- Conducted comprehensive system-of-systems safety analysis and assessment to ensure the safe operation of the suite of systems.

Senior Engineer - Defence Science & Technology Agency

Jun 2017 - Oct 2018

- Responsible for the development of system specifications, and drives the system acquisition and evaluation, and contract establishment.
- Oversaw the planning and implementation of the systems deployment, formulated test plan and scenarios, and led the conduct of the pairwise integration and testing.

Engineer - Defence Science & Technology Agency

Jun 2015 - May 2017

- Learned the fundamentals of project management, systems thinking and systems engineering.
- Acquired technical knowledge in platform design and integration, and supported the systems deployment, integration and testing activities.

QUALIFICATIONS

Udacity (collaboration with Temasek Polytechnic)

Feb 2022 - May 2022

Nanodegree Program, AI Programming with Python - Certificate of Completion

Nanyang Technological University Singapore

Aug 2011 - Apr 2015

Bachelor of Engineering (Electrical & Electronic Engineering) - First Class Honours

Singapore Polytechnic

Apr 2007 - Apr 2010

Diploma in Aerospace Engineering - with Merit

Diploma Plus - Certificate in Engineering Mathematics

SKILLS

Language proficiency: English (native) , Mandarin (fluent)

Software proficiency: C++, Python, Matlab

Others: Familiar with circuit analysis, design, component testing and soldering