

DEFENCE SCIENCE AND
TECHNOLOGY AGENCY (DSTA)PROVIDING THE
TECHNOLOGICAL EDGE

Adriel Chua shares his passion in contributing his engineering expertise as a defence engineer in the Defence Science and Technology Agency (DSTA).

Since young, Adriel has had a keen interest on how machines and systems function. He would disassemble remote control cars to explore the mechanism behind them. In his third year of studies at NTU, he took part in the World Solar Challenge to design and develop a solar electric car. After graduating with a Bachelor of Engineering (Honours) degree in Mechanical Engineering in 2011, Adriel decided to pursue his love of engineering through a career at DSTA.

He got his first taste of action as a defence engineer at the Headquarters, Maintenance and Engineering Support in the Singapore Army, where he worked on a fleet of military and armoured vehicles. "The exposure provided me a good appreciation of the life cycle of acquisition projects. It trained me to plan ahead and to understand the many considerations that go into the acquisition of defence systems."

As a senior engineer in DSTA's Land Systems Programme Centre, Adriel plays an active role in the acquisition and integration of advanced platforms and systems for the Singapore Army. In the course of his work, he conducts tests and studies to ensure optimal systems design for performance and ergonomics.

One of his most memorable projects was the Peacekeeper Protected Response Vehicle.

Adriel worked closely with his teammates to perform extensive customisation of the various on-board systems and also had the opportunity to perform tests and trials on the vehicle in France.

The 29-year-old engineer enjoys the wide variety of projects and learning opportunities at DSTA. He had also worked on the M3G Float Bridge, which is a mobile bridging platform for soldiers and heavy equipment to cross waterways. In his role as System Manager, Adriel applied his engineering knowledge to enhance the maintenance plans and ensured the reliability of the M3G Float Bridge.

Adriel says: "The job at DSTA is exciting. Every project is complex with its own considerations and problems. Knowing that my ideas contribute to the well-being of our soldiers keeps me going!"

**Adriel Chua Boon Rong**

- **Designation:** Senior Engineer
- **Age:** 29
- **Year of Graduation:** 2011
- **Education Qualifications:** Bachelor of Engineering, Mechanical Engineering from NTU
- **Year joined DSTA:** 2011

