

# THINKNOVATE With Us!

**A** love for gaming in his teenage years led Tay Kuo Min to be curious in how computers work, and he would take them apart to understand how they work. As he became more proficient in the intricacies of software and hardware, he devised his own computer set-up so that he could have the best gaming experience.

Kuo Min took his passion a step further in pursuing an engineering degree at NTU, and subsequently as a network engineer in the telecommunications industry. In 2009, he joined the Defence Science and Technology Agency (DSTA) where he is now a Project Manager responsible for providing advanced network communications solutions for our nation's defence.

He says: "Defence engineers are exposed to a wide range of advanced and emerging technologies. We must have a high level of technical competence to design defence information infrastructures that are effective, resilient and secure."

A hands-on person, Kuo Min gets a sense of achievement from managing the full-scale development of projects through their design to delivery phases. His role involves working with industry experts and partners to build the best-in-class IT solutions. He also lends his technical expertise to provide advice for complex network architectures.

"I conceptualise ideas, design solutions, manage acquisitions and integrations, conduct verification and acceptance tests and also ensure



**DEFENCE  
SCIENCE AND  
TECHNOLOGY  
AGENCY**

**TAY KUO MIN, 35**

**Project Manager  
(InfoComm Infrastructure)**

Bachelor of Engineering, Electrical and Electronic Engineering with Honours from Nanyang Technological University (NTU)

**YEAR OF GRADUATION: 2006**

**YEAR JOINED DSTA: 2009**

that these systems are operationally ready," he explains.

His most memorable project was delivering an integrated network system for Singapore's Golden Jubilee celebrations in 2015, which connected various communications and security systems deployed around the Marina Bay area. Working with a multi-disciplinary team of defence engineers, Kuo Min ensured that the SAF had access to a comprehensive situational picture for crowd management and security operations.

Kuo Min finds his career as a defence engineer to be deeply meaningful. DSTA's strong culture of teamwork and collaboration also fuels his passion for the job. He shares: "I enjoy working with colleagues from various Programme Centres in DSTA. It is through such collaborative efforts that we deepen and broaden our technical

expertise, and also come up with innovative solutions for our projects."

He also appreciates opportunities to attend in-house and external courses and conferences to hone his business and technical competencies. "I recently attended a conference where the future of wireless networks and technology was discussed. I also got to interact and exchange ideas with experts in the field, including those specialising in the Internet of Things," Kuo Min says.

On the way ahead for defence engineering in his field of work, he says: "The Internet of Things is the next frontier in the digital revolution, and we are actively exploring how we can harness it. We must constantly keep pace with the latest technologies and solutions, so that we can innovate to deliver the best engineering solutions for Singapore's defence."