

# Keefe Ker Tan

Mobile: +65 92336267  
Email: Keefeker@gmail.com

ePortfolio: <https://KeefeKer.github.io>  
Linkedin: <https://www.linkedin.com/in/keefekertan/>

---

## EDUCATION

### Singapore Institute of Technology

Sep 2024 - Present

Bachelor of Engineering with Honours in Robotics Systems

### Republic Polytechnic

Apr 2021 – Apr 2024

Diploma in Engineering System and Management

### Institute of Technical Education

Apr 2016 – Apr 2018

Higher Nitec in Information Technology

---

## EXPERIENCE

### Singapore Armed Forces

Oct 2018 – Aug 2020

Infantry Trooper (Full-time National Service)

- Appointed Section 2IC (Second-in-Command) for performance and leadership potential
- Conducted security operations and key installation protection under demanding conditions
- Awarded IPPT Gold and Marksmanship Award for physical excellence and combat proficiency
- Recognized for outstanding service, quick learning, logical thinking, and strong work ethic in Commander's appraisal
- Completed Infantry Vocation Training Phase 1 and attained WSQ Employability Skills accreditation

### Timberland / Under Armour

Nov 2014 – Aug 2018

Retail Sales Associate

- Delivered strong customer service and product recommendations tailored to customer needs
  - Maintained merchandise presentation and visual display standards across both premium retail brands
  - Promoted brand identity through product knowledge and training
  - Consistently met or exceeded sales targets and contributed to a positive team environment
- 

## PROJECT

### ROS Navigation with Limo Robot (SE Project 1)

May 2025 – Jul 2025

- Developed a ROS1-based navigation system using RTAB-Map SLAM and the Navigation Stack
  - Used RViz and ROS tools for live debugging, trajectory visualization, and system calibration
  - Logged waypoint positions and triggered goal-based navigation via Python and ActionLib
  - Conducted multi-scenario testing across different terrain and obstacle layouts
  - Designed arena elements, including a 3D retail shop, through feedback-driven iteration
- 

## SKILLS

**Programming & Tools:** C, C++, Python, HTML, CSS, ROS1, Git, Linux (Ubuntu)

**Software & Frameworks:** RViz, Gazebo, ActionLib, move\_base, Navigation Stack, SLAM, EKF

**Leadership Skills:** Team Collaboration, Communication, Adaptability, Problem-Solving, Decision-Making

**Languages:** English, Mandarin, Hokkien

---