# TAN PENG CHUAN DARYL


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## SUMMARY


Maintenance Technician with over 5 years of experience in the Singapore Armed Forces. Specialized in both corrective and preventive maintenance of military amphibious vehicles. Trained at OETI as an Automotive Basic Technician and graduated in the top 10% of the Logistics Specialist Cadet Course, earning the Silver Bayonet award. Executed repairs under demanding conditions, supporting overseas exercises and contributing to innovation.


## EDUCATION

Singapore Institute of Technology (SIT): Sep 2024 - Current
Bachelor of Engineering with Honors in Robotics Systems

Temasek Polytechnic (TP): Apr 2016 – May 2019
Diploma in Microelectronics

Institute of Technical Education College Central (ITE CC): Jan 2014 – Dec 2015
NITEC in Electronics (Microelectronics)

## PROJECTS

**Limo ROS Navigation (SIT)** May 2025 – Jul 2025
- Using RViz to visualize the map generated by RTAB
- Implemented tf2 transforms for navigation and collision avoidance
- Integrated camera and encoder data for localization

**Smart Power System Generator (SAF)** Jul 2022 – Jul 2023
- Built and programmed an automatic generator control system
- Reduced downtime and improved deployment efficiency

## WORK EXPERIENCE

**Automotive Technician (SAF)** Jul 2019 – Aug 2024

- Graduated from OETI as Automotive Basic Technician

- Completed Logistics Specialist Cadet Course: Top 10%, Silver Bayonet Award

- Maintained and repaired amphibious vehicles

- Participated in joint exercises with foreign armies

- Achieved 100% serviceability rate through preventive and corrective maintenance

- Organized and trained NSFs, achieving a 100% IPPT pass rate within the unit

## SKILLS

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|---|---|---|---|---|
| C | C++ | Python | SPIN | SolidWorks |
| ROS | SLAM | EKF | AMCL | tf2 |
| tf tree | rosnode list | Circuit troubleshooting | Automotive diagnostics | |