

KHAIRUDIN SELAMAT

Mobile: +65 8750 2919

Email: khairudinselamat99@gmail.com

LinkedIn: www.linkedin.com/in/khairudin-selamat/

SUMMARY

An aspiring embedded software engineer with a strong focus on system engineering and software development. Equipped with the skills & knowledge to design a system/product based on stakeholders' needs.

EDUCATION

Singapore Institute of Technology (Sept 2021 - Current)

- Bachelor of Engineering with Honors in Robotics Systems

Singapore Polytechnic (Apr 2016 – Apr 2019)

- Diploma in Energy Systems & Management
- Diploma+ in Design Thinking
- Certificate in SP Engineering Academy

PROJECTS

Creation of Teleoperated Land-based Locomotion Prototype (Singapore Institute of Technology)

- Developed capabilities in mechanical & electrical engineering as well as project management. Through the creation of a land-based locomotion prototype in a team project, competencies in fabrication and programming were acquired.
- Achieved a semi-autonomous behaviour for the land-based prototype. Through Spin language programming and the implementation of algorithms, it enables the prototype to avoid obstacles.

Digital Visualization [AR] For Computer Numerical Control (CNC) Machining Operation

- Developed an augmented reality (AR) application that provides an interactive learning experience for students fabricating components using a CNC Machine.
- The AR application enables students to better familiarize themselves with the controls of the CNC Machine and assists lecturers during school curriculum.

WORK EXPERIENCES

Singapore Polytechnic (Apr 2019 – Jun 2019)

Technical Support Officer

- Tasked with content development of an Augmented Reality (AR) application and research on AR headsets functionalities and limitations.
- Created an introduction video for the AR application which allowed the gaining of new skills such as video editing and graphic design.
- Showcased AR application to industry leaders and demonstrated future use of AR technology in an industry setting.

Dantah Engineering Pte Ltd (Sept 2017 – Oct 2017)

Intern

- Learned to troubleshoot & perform service maintenance on air-conditioning (AC) systems at client sites.
- Assist the manager with purchasing of AC system spare parts and gained new skills such as report writing and troubleshooting skills.

NATIONAL SERVICE

Ministry of Home Affairs (Dec 2019 – Sept 2021)

Staff Assistant (Rank: Corporal)

- Briefed new officers with the standard operating procedures (SOP) and code of conduct in a command centre setting.
- Trained and supervised officers on the steps to follow when operating systems.
- Established connections among current and new officers and ensured everyone was coping well.

SKILLS

Technical

- Proficient in CAD software such as Solidworks.
- Proficient in programming languages such as C and C++.
- Able to troubleshoot coding errors.
- Informed practice of electronics during poly & degree studies.
- Basic knowledge in microcontroller (MCU) architecture & programming such as Parallax Propeller and Arduino.
- Prior experience using Amazon Web Services.

Soft Skills

- Problem Solving
- Effective Communication
- Analytical Skill
- Evaluation Skill
- Able to manage multiple projects and multi-task between them.
- Competent to take own initiative when needed.