

# Yoong Wai Kit

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## OBJECTIVE

I am a conscientious and self-motivated learner who is eager to gain industry experience in developing and maintaining embedded systems and electronic devices.

I can contribute ideas and insights from the skills and knowledge I have acquired in my course modules and WorldSkills Electronics training.

## EDUCATION

*Apr 2021 – Apr 2024*

*[Graduating in April 2024]*

### **Diploma in Computer Engineering, Temasek Polytechnic**

- Completed modules with distinctions in Microcontroller Applications, Object-oriented Programming, Computer Programming for Problem Solving, Electronic Prototyping, and Data Visualisation and Analytics
- Current GPA: 4.00/4.00

*Jan 2017 – Dec 2020*

### **GCE 'O' Level Certificate, St. Gabriel's Secondary School**

- Achieved distinctions in Mathematics, Additional Mathematics, Physics, Biology, Humanities, and Chinese

## SKILLS

### TECHNICAL SKILLS

- Experienced in developing embedded systems on the STM32 NUCLEO-L053R8 and Arduino UNO R3 microcontroller development boards
- Skilled in creating Java Graphical User Interfaces
- Adept at designing analogue and digital electronic circuits according to given specifications
- Proficient in designing PCBs on the Autodesk EAGLE software
- Competent in assembling PCBs using the industry standard lead-free solder
- Knowledgeable in troubleshooting and rectifying faults on PCBs
- Skilful in analysing and visualising data using Tableau and KNIME

### GENERIC SKILLS

- Cooperate and work well within a team in academic and professional settings
- Takes initiative to ensure success in the implementation and completion of projects
- Determined and meticulous worker who believes in putting in the best effort for every task
- Flexible and adaptable in adjusting to new working needs and environment
- Proficient in using the Microsoft Office Suite (PowerPoint, Word, Excel)
- Fluent in written and spoken English and Chinese

## WORK EXPERIENCE

*Jan 2021 – Apr 2021*

### **STMicroelectronics Asia Pacific Pte Ltd**

Warehouse Assistant:

- Demonstrated effective team communication and cooperation with other warehouse staff to successfully prepare over 2,000 cartons of semiconductor products for daily transportation

*Nov 2020 – Dec 2020*

### **J&T Express Pte Ltd**

Warehouse Assistant:

- Displayed flexibility and adaptability by working effectively on various tasks assigned by supervisors, such as loading, unloading, picking, packing, sorting, and scanning e-commerce parcels

*Nov 2019*

### **ST Engineering Electronics Ltd**

One-Day Job Shadowing Experience:

- Acquired in-depth insights on the roles and responsibilities of Web Developers, AR/VR Developers, and Graphics Designers

## ACHIEVEMENTS

2022

### **Awards For Excellence – Director’s List Award**

- Awarded for being among the top 10% in terms of academic performance

2022

### **Electronic Design Competition**

- Awarded Bronze Medal for designing all the electronic circuits to given specifications

2022

### **Temasek Polytechnic Scholarship (Engineering)**

- Awarded for outstanding academic results, CCA achievements, and leadership qualities

## CO-CURRICULAR ACTIVITIES

2022 – Present

### **Engineering Peer Mentors**

Vice-president for competitions and events (2022 – 2023):

- Reinforced leadership and organisation skills by:
  - Coordinating the Electronic Design Competition for Year 1.2 engineering students to assess their knowledge of electronic circuit design
  - Planning a game booth for the Campus Care Network Day to raise funds for students in need of financial assistance
  - Overseeing the ENGenius Awards Ceremony for graduating students who have completed the ENGenius Awards Programme

2021 – Present

### **Temasek Polytechnic ENGenius Awards Programme**

Experiential Research Programme at TP-HRG Robotics Innovation Centre:

- Acquired technical skills in:
  - Hardware assembly by mounting and connecting the hardware of a ROBOTIS TurtleBot3 Waffle Pi
  - Software set-up by configuring the TurtleBot’s Raspberry Pi 3B+ and OpenCR1.0 boards for teleoperation, Simultaneous Localization & Mapping (SLAM), and navigation
  - Robot simulation of the TurtleBot using GAZEBO and RVIZ simulators
- Exhibited initiative and keenness to learn by conducting independent research on:
  - Calibrating the Raspberry Pi Camera Module V2.1 for vision on the TurtleBot
  - Setting-up voice command for teleoperation on the TurtleBot

## VOLUNTEERING EXPERIENCE

Nov 2022

### **Hao Ren Hao Shi (HRHS) Care Pack Distribution**

Volunteer:

- Packed milk and egg for distribution to 50 needy families
- Interacted with families during their collection of the care packs

## REFERENCES

Mr. Low Kian Mong, Senior Lecturer, Temasek Polytechnic

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