# PANG KANG V

ROBOTICS & MECHATRONICS ENGINEER

# CONTACT

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# SKILLS

# Mechanical

- SolidWorks used to create 3D models, simulate CNC machining, and draft 2D engineering drawings with FAI dimensions
- 3D printing used to rapidly prototype parts

## Software

- Python used on various projects involving Al
- · JavaScript, HTML, CSS used to build web application and websites
- · Matlab used to program basic computer vision algorithms
- G-code used to program CNC machines
- Swift used to develop iOS application for the final year project
- · C++, VHDL, PLC ladder, WPF, RAPPID, KRL

#### Electrical

LTspice, soldering, wiring

# EDUCATION

# **Monash University**

**Bachelor of Robotics and Mechatronics Engineering (Honours)** 

March 2019 - Dec 2022

 CGPA: 3.256 WAM: 71.897

## AWARDS

# **IEEE FYP Competition 2022**

- Track 15 (View)
- Track 17 (View)

# CERTIFICATES

- Dassault Systèmes Certified SolidWorks Associate in Mechanical Design (View)
- Innovate Malaysia Design Competition (<u>View</u>)

## WORK EXPERIENCE

# **Mechatronics Engineer**

JKS Engineering (M) Sdn Bhd

Nov 2021 - Feb 2022

- · Built a conveyor communicator software using Windows Presentation Foundation for parameters setting
- Designed the user interface for the software
- Self-educated C# to program the front-end and back-end
- Programmed one of the conveyor operation modes as known as zero pressure accumulation
- Performed functionality tests on the software built
- Led the LaTeX development for the production of technical and scientific documentation
- Programmed document templates for both English and Chinese version in TeX using LaTeX
- Provided a lecture session for a team of 4 on the LaTeX templates to guide them for future usage

# **PROJECTS**

# **Final Year Project**

# What?

- Integration of technologies to the hydroponics farming system
- Developed a self-monitoring system

#### How?

- · Utilized IoT for remote monitoring
- Programmed a self-monitoring algorithm in python
- Used Raspberry Pi to integrate sensors and actuators
- Developed an iOS application to monitor the environmental conditions

## Results

• The system successfully planted Chinese cabbage in 30 days with minimal human intervention

# **Apple Leaf Disease Classification**

### What?

• Detect apple leaf diseases to reduce quantitative and qualitative losses in crop yield

#### How?

Applied ResNet-18 convolutional neural network

#### Results

Achieved a test accuracy of 96.4%