

# Heng Ming Ji

Software Engineer

## Email

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## EXPERIENCE

### **RoviSys Asia, Singapore – Software Engineer**

JULY 2019 – JANUARY 2022

- Using 3rd party software OSIsoft PI, implement Plant Information Management System to help client achieve real-time factory data analysis globally, user could see dashboard on web browser.
- Implement Network Monitoring System to notify user through email if any network issue occurs. (OSIsoft PI)
- Assist system upgrade operation.
- Build excel macro (vba.net) to increase system roll-up efficiency

### **Temasek Laboratories@NTU, Singapore – Intern**

JANUARY 2018 – JUNE 2018

- Research on fabrication of optical resonators.
- Study mechanical properties of various optical materials.
- Assist optical fiber pigtailling operation using CNC machine.

## PROJECTS

### **Music Visualizer – Web Application**

JULY 2022 – AUGUST 2022 | Personal Side Project

- Build and deploy web app which generate simple music video, displaying audio spectrum, lyrics and playtime.
- Tech. stacks: Javascript, CSS, HTML
- Code at github: <https://github.com/hmingji/MusicVisualizer>

### **To-DoApp – Web Application**

DECEMBER 2021 – JUNE 2022 | Personal Side Project

- Build and deploy a to-do web app with intention to self-learn web dev.
- Features include user login, to-do task CRUD operation, searching, filtering, sorting, light/dark mode.
- Tech. stacks: React (typescript), ASP.NET (C#), Material UI, IdentityServer4.
- Code at github: <https://github.com/hmingji/ToDoApp>

### **Automation of Fire Watcher – Computer Vision**

AUGUST 2018 – MAY 2019 | Uni. Final Year Project

- Build a vision-based fire detection system.
- Implement object detection on video feed from camera.
- Collect and annotate data to train the network model.
- Design and conduct proof-of-concept experiment.
- Tech. stacks: Python, OpenCV.

## EDUCATION

### **Nanyang Technological University, Singapore**

B.Eng. in Mechanical Engineering

AUGUST 2015 – JUNE 2019 (Expected)

- ❖ 2<sup>nd</sup> Class (Upper) Honours
- ❖ Specialized in Mechatronics
- ❖ Cum. GPA: 4.40/5.00

## SKILLS

### **Programming:**

- ❖ Javascript
- ❖ Typescript
- ❖ React.js
- ❖ C#
- ❖ C
- ❖ CSS
- ❖ HTML

### **Languages:**

- ❖ English, Mandarin, Malay