



## EXPERIENCE

**ASML Taiwan Ltd.** – April 2021 – present

➤ **Equipment Performance Engineer / Competency Engineer / Customer Support Engineer**

- Reconciled about 100 machines status and reached availability target 93% in Taiwan.
- Cooperated between local and Centre resolve RY-95C8 issue which no machine down (3hrs of week) and provide Centre procedure update on the coach which roll out to World Wide.
- Helped N3 ramp up successfully and supported customer to HVM in 1 year.
- Developed tools –
  - Auto report system on Spotfire to reduce 3hrs of week for each EPC workload.
  - DL dashboard on Spotfire which turn USD to SD and reduce 3hrs machine down time.
  - KU dashboard on Spotfire help Hsinchu site reduce manual work.
  - Be-warned system preventing machine down and avoid customer product damage.
  - EMGJMI data tools help metro TSE team reduce 1hr manual work time to analysis data and troubleshooting.
  - Auto download logging program to help Centre team get Taiwan machine logging issue which reduce project test run progress to roll out.
  - Automatic app reduces 1hr waiting time and human error for each 100person of day.
  - Monitor program monitoring machine inline refill action and request from Centre help to become company software which reduce 2 person of day fab team manpower and 12hrs manual work time and avoid ILR module broken which make machine down which cost 100M eur dollars.

**National Health Research Institutes** – **Project Assistant** March 2020 – January 2021

- Using python Machine Learning (pytorch, tensorflow) algorithm and embedded system to develop Biomedical Engineering Product which are AI Technology for Thermal Scanning, Real-Time AI Wound recognition, Social Distancing Monitor, Health Monitor and AI Rehabilitation.
- Guided intern through independent study on Biomedical Engineering

**GrandTech Cloud Services** – **Software Engineer** September 2019 – March 2020

- Developed and maintain automated billing generation and management system with C# MVC, jQuery and MSSQL
- Developed OA system to automated form generation, and using API to connect AWS and Zendesk

**iSSA Technology Co., Ltd** – **Algorithm Engineer** July 2018 – September 2019

- Embedded system development in Ubuntu - TX2 、IPC 、Raspberry Pi
- Developed 3D camera application SDK - Using SDK to testing our Stereo 、ToF 、Structure light Camera.

- Developed 3D face recognition system - Using CNN \ DNN training model and KNN classify to develop attendance system to replace traditional system.

**Taiwan Intellectual Property Office –Patent Assistant** September 2013 – September 2016

- Performed data analysis and retrieved from database to achieve quality assurance of Patent
- Played key role in reviewing patent filing that figure out main point and technical
- Analyzed Technical core in patent and created specialized search report output for applicant

## EDUCATION

**Master of Engineering in Mechanical and Electro-Mechanical Engineer**

Tamkang University – September 2011 – June 2013

Developed the application software with C++ to support the robot simultaneous localization, mapping and structure from motion using a RGB-D sensor. The program use OpenCV to capture Images, Speeded Up Robust Features (SURF) to build map, and Extended Kalman filter (EKF) to proceed Simultaneous Localization and Mapping (SLAM). Final, using a cloud computing implemented by File Transfer Protocol (FTP) server and Matlab calibrated sensor and built 3D map.

## TECHNICAL SKILLS

**Coding:**

Familiar with C++, Python, OpenCV , C# MVC, jQuery

**Algo:**

Extended Kalman filter (EKF), Speeded Up Robust Features (SURF), Simultaneous Localization and Mapping (SLAM), Calibration of RGB-D sensors

**Data:**

MySQL, MSSQL

**Tools:**

MatLab, Fortran, PowerBI, Spotfire, SolidWorks, Microsoft Office, Dreamweaver

**Hardware:**

Raspberry PI, Nvidia TX2/NX, Microsoft Kinect Sensors

## Awards & Certifications

- World Wide BEST CI Awards at ASML
- Taiwan BEST A3 Awards at ASML
- Taiwan BEST CI Awards at ASML
- 17th Taiwan Innoaward : AI Thermal Detector
- Mircosoft Office Specialist
- Techficiency Quotient Certification for Office Word
- Techficiency Quotient Certification for Office PowerPoint