

# KATHY AUNG

Implementation Engineer, Software Developer

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<https://ktablog.github.io/> •

## OBJECTIVE

13+ years experienced in developing software and control systems for factory automation, data monitoring, robotics, and servo applications. Skilled in coding, data structures, analytical thinking, building frameworks and project management. Result orientated, maintaining high efficiency through strategic planning, corporate cultural harmony, and work life balance. Possess an MBA. and expertise in C#, .NET, ASP.NET Core. Looking to leverage my knowledge and experience into a role as Enterprise Software Developer, Implementation Engineer.

## PROFESSIONAL EXPERIENCE

### ASCENDZE PTE LTD, Singapore, SG

Senior Software Development Engineer • Singapore • October 2022 – Present

- Developed Windows Forms Applications for Robotics and Factory Automation Applications by using C# .NET, RoboDK and Python.
- Developed Manufacturing Control Systems for Factory Floor Material Management by using .NET Core Razor Page Web Platform, HTML, CSS, Java Script, C#, and Python.
- SECS-GEM protocol integration for both host and equipment applications.
- Providing guidance and mentorship for associate engineers and intern students.

### ENGLISH LANGUAGE TEACHER (SELF EMPLOYED)

Self Employed • Yangon • January 2021 – September 2022

- Teaching basic and intermediate level English language course to primary and high school students.
- Crafting a suitable curriculum for local students.
- Overseeing students' improvements by conducting exams and tests.

### ANGEL PLAYING CARDS – Singapore, SG

Manager (Technological Division), November 2019 – January 2021

- Identified procedural areas of improvement through customer data using SQL to help improve the accuracy and performance of monitoring and instant calculation of the surveillance algorithm.
- Created forms and apps using Java for R&D and designed data base schema for related APIs.
- Added enhanced security features for Login page of the server web application which include password hashing, password manager for each user and options.

## **YAC SYSTEM – Singapore, SG**

*Software and Control Engineer, December 2018 – September 2019*

- Developed control systems and HMIs by writing codes in various PLC platforms, C++, and C#.
- Performed wireless handshaking with AGVs (Automated Guided Vehicles) and integration among robots, servo motors, AGVs and core production line to achieve effective operation with reliable safety measures.

## **CASEM (ASIA) – Singapore, SG**

*Software and Control Engineer, May 2013 – November 2018*

- Managed the overall system and design of factory automation processes, machines, and production lines to be able to deliver with accepted criteria.
- Developed control systems and HMIs by writing codes in various PLC platforms, C++, and C#.
- Performed wireless handshaking with AGVs (Automated Guided Vehicles) and integration among robots, servo motors, AGVs and core production line to achieve effective operation with reliable safety measures.
- Executed machine capacity upgrading by reducing stoppages, software bugs and increasing cycle time to meet the required MTBF.
- Conducted project yield analysis for high quality international standard products to minimize rejects.
- Prepared machine operation manual for production managers, supervisors, and operators to operate, troubleshoot and maintain the production line conveniently.

## **PANASONIC INDUSTRIAL DEVICE – Singapore, SG**

*Electrical Design Engineer, January 2013 – May 2013*

- Designed automated machines to form micro-electronic devices and managed to meet tight delivery schedules.
- Developed control systems and GUI by writing codes in Mitsubishi PLC and HMIs.
- Prepared machine operation manual for production managers, supervisors, and operators to operate, troubleshoot and maintain the production line conveniently.
- Handled electrical components and hardware selection and purchasing to meet project deadlines within acceptable budgets.

## **FUJICON ENGINEERING – Singapore, SG**

*Systems Programmer, April 2011 – January 2013*

- Designed automated machines for various manufacturers and managed to meet tight delivery schedules.
- Developed control systems and GUI by writing codes in RSLogix5000, Keyence PLC, Mitsubishi PLC, and HMIs.
- Prepared machine operation manual for production managers, supervisors, and operators to operate, troubleshoot and maintain the production line conveniently.
- Handled electrical components and hardware selection and purchasing to meet project deadlines within acceptable budgets.

## **PODOYO PLASTIC INDUSTRIES – Malaysia, MY**

*Technical Specialist, September 2009 – February 2011*

- Assisted Process Engineer to minimize downtime, maximize yield and output within HP quality criteria.
- Monitored and reported machine status, production outputs and yields.
- Performed weekly and monthly preventive maintenance and installed new components if necessary.

- Provided training for new Technical Specialists and maintained proper housekeeping (5S) & strategic tools arrangement to meet safety measures for the manufacturing line.

## **TSM CONSULTANCY – Singapore, SG**

Assistant Engineer, August 2008 – March 2009

- Drafted traffic layout plans and prepared reports for traffic impact assessments, road safety reviews, traffic management planning, traffic survey and analysis.
- Conducted traffic surveys and performed data entry for PE to make the judgements.

## **EDUCATION**

### **UNIVERSITY OF NOTTINGHAM – UK, China, Malaysia**

Master of Business Administration (MBA), July 2019  
Passed with Merit

### **YANGON TECHNOLOGICAL UNIVERSITY – Myanmar**

Bachelor of Engineering (BE, Electrical Power),  
December 2006  
GPA: 4.7/5.0

## **CERTIFICATES**

### **HARVARD UNIVERSITY**

CS50B, Computer Science for Business Professionals,  
August 2022

### **NANYANG TECHNOLOGICAL UNIVERSITY**

Developing Object Oriented Applications in C++,  
April 2016

### **TABLEAU e LEARNING**

Data Science with Tableau,  
June 2022

### **MICROSOFT**

Analyse Data with PowerBI,  
May 2022

### **GOLDMAN SACHS**

Engineering Virtual Program, Fintech Engineering,  
June 2022

### **CISCO NETWORKING ACADEMY**

NDG, Linux Unhatched,  
July 2022

## **PERSONAL TRAITS**

- Able to understand the analogy between engineering, social, mathematics and economics.
- Self-motivated, Independent & Sociable.
- Good Team player with Positive Attitude.
- Quick Learner.
- Able to code variety of programming languages.

## **ADDITIONAL SKILLS**

- Data mining
- Parsing files and log files to extract required data.
- Scripting SQL to extract data.
- Constructing API to access required data.
- Developing Java apps
- Web development
- Structuring data with Panda
- Visualizing with Dash
- Testing system performance for multi-threading

## **FURTHER INFORMATION**

Availability	Immediate
Reason for leaving	Career Progression
Expected Salary	Negotiable

**LINKEDIN LEARNING**

*Become a Data Analyst,  
Become a Financial Analyst,  
Become a Software Developer,  
June 2022*

**ORACLE UNIVERSITY**

*Java Explorer,  
July 2022*

**UNIVERSITY OF LEEDS**

*Communication and People Skills at Work,  
May 2022*

**ACCENTURE**

*Digital Skills: Artificial Intelligence,  
Digital Skills: Web Analytics,  
Digital Skills: social media,  
May 2022*

