



KATHY AUNG

Technological Manager

13+ years experienced in developing software and control systems for factory automation, data monitoring, robotics, and servo applications. Skilled in coding, PLC programming, electrical and control system design, and project management. Result orientated, maintaining high efficiency through strategic planning, corporate cultural harmony, and work life balance.

CONTACT ME

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AREAS OF EXPERTISE

Project Management

Managed the overall system and design of factory automation processes, machines, and production lines to be able to deliver with accepted criteria.

Control System Design

Designed automated machines to form micro-electronic devices and managed to meet tight delivery schedules.

Project Analysis

Conducted project yield analysis for high quality international standard products to minimize rejects.

WORK EXPERIENCE

SENIOR SOFTWARE AND CONTROL ENGINEER

Ascendze Pte Ltd • 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.

MANAGER (TECHNOLOGICAL DIVISION)

Angel Playing Cards • Singapore • 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.

SOFTWARE AND CONTROL ENGINEER

YAC System • Singapore • 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.

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

- Project Management
- Quality Control
- Project Yield Analysis
- Service and Commissioning
- Control System Design
- Servo Motor Control Design
- Electrical Design
- PLC Programming
- Robotic Programming
- HMI Design and Programming
- Web Development
- Communication Protocols
- User Manual Writing
- Purchasing Components

FURTHER INFORMATION

Availability: Immediate
Reason for leaving: Career Progression
Expected Salary: Negotiable

SOFTWARE AND CONTROL ENGINEER

CASEM (ASIA) • Singapore • 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.

ELECTRICAL DESIGN ENGINEER

Panasonic Industrial Device • Singapore • 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.

SYSTEMS PROGRAMMER

Fujicon Engineering • Singapore • 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.

TECHNICAL SPECIALIST

Podoyo Plastic Industries • Malaysia • 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.

ASSISTANT ENGINEER

TSM Consultancy • Singapore • 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 & CREDENTIALS

MBA (General)

University of Nottingham, UK, China, Malaysia,
July 2019

BE (Electrical Power)

Yangon Technological University, Myanmar
December 2006

CS50T (Understanding Technology)

Harvard University, Edx
July 2022

CS50B (Computer Science for Business Professionals)

Harvard University, Edx
August 2022

Developing Object Oriented Applications in C++

Nanyang Technological University, Singapore
April 2016

Digital Skills: Artificial Intelligence

Accenture
May 2022

NDG, Linux Unhatched

CISCO Networking Academy
July 2022

Java Explorer

Oracle University
July 2022

Communication and Interpersonal Skills at Work

University of Leeds
May 2022

Basic System Integrator Training

Rockwell Automation
January 2017

EPLAN Electric P8

EPLAN
January 2018

Solidworks Electrical 2D

SEACAD
June 2019