

MAR LAR AUNG

.NET Full Stack Developer

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PROFESSIONAL SUMMARY

Full Stack Developer with 5 years of experience building Windows desktop and web applications using .NET, with a primary focus on systems for industrial automation. Skilled in C#, WinForms, ASP.NET Core, and SQL Server, with a strong background in engineering systems. Over 15 years of experience in automation across Singapore, Japan, and Southeast Asia. Focused on building stable, high-performance systems from design to deployment, with exposure to cloud platforms like AWS.

SKILLS

| PROFESSIONAL

Attention to Detail
Critical Thinking
Structured Problem Solving
Analytical Mindset
UI/UX Awareness
Creative Thinking
Decision Making
Interpersonal Communication
Stakeholder Collaboration
Teamwork & Knowledge
Sharing
Continuous Improvement

| TECHNICAL

Languages
C#
HTML, CSS, JavaScript
SQL, JSON, XML
Frameworks & Libraries
ASP.NET Core
.NET Framework
Entity Framework, Blazor
Bootstrap, jQuery
Front-End
Razor Pages, WinForms, WPF
UI/UX Design Concepts
Database
SQL Server, MySQL,
PostgreSQL, MSSQL
Tools & Platforms
Visual Studio, Git
Azure DevOps
Postman

WORK EXPERIENCE

SENIOR SOFTWARE DEVELOPMENT ENGINEER

ASCENDZE PTE.LTD, SINGAPORE / 2022 OCTOBER - 2025 JULY

- Independently developed and deployed web and desktop applications using .NET with a primary focus on Windows Forms-based desktop apps for factory automation, alongside PLC programming for complete manufacturing line automation, from system design to final integration.
- Created Windows Forms applications for robotics and automation systems using C#, C++, and Python.
- Designed and implemented manufacturing control systems using ASP.NET Core and SQL Server, enabling real-time production tracking and reducing operator errors by 30%.
- Integrated SECS-GEM communication protocol for host and equipment applications.
- Developed algorithms for secure PLC-to-cloud data transmission via TCP/IP, supporting remote access and monitoring.
- Provided technical guidance and mentorship to associate engineers and interns on control systems and software development.

MANAGER (TECHNOLOGICAL DIVISION)

ANGEL SINGAPORE (ASIA) PTE.LTD, SINGAPORE / 2019 NOVEMBER - 2021

JANUARY

- Analysed customer data using SQL to identify procedural inefficiencies, improving the accuracy and performance of real-time surveillance algorithms.
- Developed internal applications and forms using Java for R&D, including database schema design for API integration.
- Improved authentication and authorization in the Angel Server centralized control system by implementing password hashing, role-based access control, and credential management.
- Built monitoring tools for DevOps environments, enabling load balancing diagnostics, data accuracy validation, and latency troubleshooting.

Cloud & Deployment
AWS (EC2, S3, RDS)
REST APIs
CI/CD (basic)
Industrial & Domain-Specific
PLC Programming
(Mitsubishi, Omron, Keyence, etc.), SCADA Systems
SECS-GEM, Modbus/TCP
Serial COM, TCP/IP
System Integration
Motion Control
Machine Vision
Other Skills
LINQ
Technical Documentation
Version Control

EDUCATION

| BACHELOR OF ELECTRICAL POWER ENGINEERING

Yangon Technological University (YTU), Myanmar |
2006

| MASTER OF BUSINESS ADMINISTRATION

University of Nottingham (UK)
Global Campus Program –
China, Malaysia, Singapore (PSB Academy)
MBA, 2019

PROFESSIONAL CERTIFICATES

| CS50B, CS50T

HarvardX via edX | 2021

PROFESSIONAL AFFILIATIONS

| MEMBERSHIP

Myanmar Engineering Society |
2006 – Present

SYSTEMS AND CONTROL SOFTWARE ENGINEER

YAC SYSTEMS SINGAPORE PTE LTD, SINGAPORE / 2018 DECEMBER – 2019

SEPTEMBER

- Developed control systems and HMIs for fully automated stockers and wafer handling equipment using C++, C#, and multiple PLC platforms.
- Implemented wireless handshaking and communication protocols with AGVs, enabling seamless integration between robots, servo motors, AGVs, and the main production line with a focus on operational efficiency and safety compliance.

SYSTEMS AND CONTROL ENGINEER

CASEM (ASIA) PTE LTD (SUBSIDIARY OF MANUFACTURING INTEGRATION

TECHNOLOGY, MIT, SINGAPORE / 2013 MAY – 2018 NOVEMBER

- Designed and managed end-to-end factory automation systems, including machines and production lines, to meet performance and delivery criteria.
- Optimized and enhanced PLC codebase, reducing machine downtime by 20% and enabling smooth production ramp-up.
- Performed yield analysis and quality control to align with international manufacturing standards and reduce product rejects.

ELECTRICAL DESIGN ENGINEER

PANASONIC INDUSTRIAL DESIGN SINGAPORE PTE LTD, SINGAPORE / 2013

JANUARY – 2013 MAY

- Designed and programmed automated machines for micro-electronic device manufacturing, consistently meeting tight delivery timelines.
- Created detailed operation manuals to support production managers, supervisors, and operators in efficient machine use, troubleshooting, and maintenance.
- Managed electrical component selection and hardware procurement, ensuring on-time project delivery within budget constraints.

SYSTEMS PROGRAMMER

FUJICON ENGINEERING PTE LTD, SINGAPORE / 2011 APRIL – 2013 JANUARY

- Designed automated machines with feeders and pick-and-place systems for various manufacturers, consistently meeting tight delivery schedules.
- Developed control systems and user interfaces using RSLogix 5000, Keyence PLCs, Mitsubishi PLCs, Omron PLCs, and HMI platforms.

TECHNICAL SPECIALIST

PODOYO PLASTICS INDUSTRY (M) SDN BHD (FOR CELESTICA SINGAPORE),

MALAYSIA / 2009 SEPTEMBER – 2011 MARCH

- Monitored and troubleshooted fully automated production lines for printer cartridge manufacturing to ensure continuous operation and minimal downtime.

ASSISTANT ENGINEER

TSM CONSULTANCY PTE LTD, SINGAPORE / 2008 AUG – 2009 MAY

- Conducted traffic surveys, performed data entry and analysis, and drafted road design proposals for LTA infrastructure projects, including technical report writing and documentation.