



Nay Htet Lin

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ABOUT ME

Professional Automation and Control Engineer with a strong foundation in industrial automation, control system design, and hardware engineering. Skilled in PLC programming, system integration, and electrical schematics, with deep technical knowledge of industrial communication networks, intelligent control systems, and digital and embedded technologies. Adept at applying advanced control theories—including adaptive, fuzzy, and neural network-based algorithms—to develop efficient, reliable, and sustainable automation solutions. Driven by innovation and precision, I focus on bridging theoretical models with practical engineering applications to advance modern automation systems.

WORK EXPERIENCE

🏢 **AviComp Controls GmbH** – Leipzig, Germany

City: Leipzig | Country: Germany

Hardware Project Engineer

[06/05/2025 – 10/11/2025]

- Designed and developed control cabinets for compressor control and monitoring systems.
- Created electrical schematics, terminal diagrams, and component layouts using CAE tools such as WSCAD and Eplan.
- Coordinated with project teams to ensure design compliance with customer specifications.
- Supported FAT procedures, documentation, and commissioning activities.

🏢 **ST Engineering Urban Solutions Ltd** – Singapore, Singapore

City: Singapore | Country: Singapore

Control System Engineer

[22/08/2022 – 02/08/2024]

- Designed and implemented control systems for Platform Screen Doors (PSD), ensuring compliance with safety and operational standards.
- Created detailed electrical schematics and wiring harness designs using CAD tools.
- Developed and tested PLC programs in Beckhoff TwinCAT 2 for seamless integration with subsystems.
- Designed HMI programs on Hakko MONITOUCH V9 series for monitoring and troubleshooting.
- Spearheaded communication interface designs, including CANBus and Modbus TCP/IP, for efficient data exchange.
- Led cross-functional collaboration to meet tight project deadlines and client specifications.

🏢 **AviComp Singapore Pte Ltd** – Singapore, Singapore

City: Singapore | Country: Singapore

Application engineer

[18/08/2020 – 17/08/2022]

- Engineered control panels adhering to international safety certifications.
- Developed system architecture enabling communication between hazardous and safe areas.
- Implemented control philosophies on fabricated panels and conducted quality assurance testing with clients.
- Design drawings, review, and update of electrical design documents

- Design basic and detailed engineering with CAE tools such as AutoCAD and WSCAD

 **Singapore University of Technology and Design** – Singapore, Singapore

City: Singapore | Country: Singapore

Visiting Fellow

[25/07/2019 – 24/07/2020]

- Contributed to robotics and automation research, including vertical surface propagation robots.
- Designed system architecture and integrated electrical systems.
- Published papers on robotics innovation, including a patented project on autonomous ship maintenance robots.

EDUCATION AND TRAINING

Master of Science

RPTU Kaiserslautern - Landau [16/08/2024 – 31/08/2026]

City: Kaiserslautern | Country: Germany | Website: <https://rptu.de/> | Field(s) of study: Automation and Control

Bachelor of Engineering

Yangon Technological University [03/12/2012 – 10/10/2018]

City: Yangon | Country: Myanmar/Burma | Website: <https://ytu.edu.mm/> | Field(s) of study: Electronic Engineering

LANGUAGE SKILLS

Mother tongue(s): Burmese

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

German

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

WSCAD / Eplan / COMOS / PLC Programming (Structured text, Ladder, FBD) / C/C++ / Autodesk AutoCAD/ Autodesk / Industrial Communication Networks / Logic Control, Soft Control, Non-linear and Adaptive Control / Energy Management Systems for Electric & Hybrid Vehicles / Theoretical and Experimental Modelling

PUBLICATIONS

[2018]

Automatic vehicle license plate recognition system for smart transportation

Journal Name: 2018 IEEE international conference on internet of things and intelligence system (IOTAIS)

[2020]

Sparrow: A magnetic climbing robot for autonomous thickness measurement in ship hull maintenance

Journal Name: MDPI

[2022]

Adhesion Risk Assessment of An Aircraft Inspection Robot for Improving Operator Awareness

Journal Name: IEEE