

Hnin Ei San

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SUMMARY

AI and Robotics Engineering graduate with experience in developing end-to-end data and AI solutions, including data analytics dashboards and inspection tools in the manufacturing companies. I enjoy working across data analytics, machine learning, computer vision, deep learning, LLMs, and RAG pipelines basically, whatever the problem needs.

EXPERIENCE

Data Scientist Internship

May. 2025 – Nov. 2025

Ford Motor Company(Plant Launch Department)

- Built innovation dashboards for the plant launch department, integrating data from finance, production, and logistics systems (Monitoring for 8 key Areas and 7 innovation pillars in Thailand plant)
- Developed the chat bot to provide inquiry for the plant launch management

Technical skills : Python, Power BI, Stream-lit, LLMs, JSON, Graph API, SharePoint, Excel, Azure , RAG, LangChain

Wafer Test Unit Process Engineer AUT Internship

Apr. 2024 – Jun. 2024

Infineon Technologies (Wafer Test Department)

- Designed and developed computer vision algorithms to automatically detect and measure probe marks on wafer probe pads as part of wafer test inspection , achieving 97% accuracy of algorithm

Technical skills : Python, OpenCV, Computer Vision, Deep Learning, NumPy, Pandas, SciPy, Matplotlib

Teacher Assistant (Introduction to Artificial Intelligence)

Jul. 2023 – Mar. 2024

King Mongkut's Institute of Technology Ladkrabang (KMITL)

- Guided and supported lab sessions, debugging code and explaining algorithms
- Evaluated assignments and provided constructive feedback to improve student understanding

Technical skills : Data Analytics, Machine Learning, Computer Vision, Deep Learning

TECHNICAL SKILLS

Programming: Python, C, SQL, MATLAB


Tools: MATLAB, Excel, Git, Linux (Ubuntu), Docker, Stream-lit, SharePoint, Power Automate


Data Analysis: Data Cleaning, EDA, Data Transformation, Statistical Analysis


Visualization: Matplotlib, Seaborn, Power BI


AI: Machine Learning, Deep Learning, Computer Vision, LLMs, RAG, NLP, Agentic AI, Crew AI, GenAI


SELECTED PROJECTS

 **Energy Consumption Analysis and Prediction for Drone-Based Package Delivery** | *Big Data* | Analyzing and predicting the energy consumption of drones during package delivery missions

 **AI Debugging Assistant** | *Data Science* | Automatically detects, explains, and fixes bugs in source code using a LangGraph pipeline

 **Transformable Multi-Modal Robotic System for Visual Inspection** | *RAI Capstone Design Preparation* | Transformable hybrid UAV-UGV platform capable of aerial flight, ground locomotion, and mechanical morphing for inspection

 **Automated PH Estimation** | *Computer Vision* | Automated pH level estimation in water samples using test strip color analysis

 **Vision Transformer & MLP-Mixer Architectures** | *Machine Learning in Practice* | Standard Transformer to Supervised Pre-Training with image classification and Self-Supervised Pre-Training with segmentation

HONORS & AWARDS

2025 – AI for ASIA Fellowship (SKLB)

2025 – Korea Advanced Institute of Science and Technology Electrical Engineering Camp Awardee (KAIST)

2024 – National Finalist, Myanmar (ASEAN Data Science Explorer)

2024 – Hult Prize on Campus Winner (Hult Prize)

2022 – Tourism Case Winner (International Summer School and Hackathon on Technology and Sustainability , Thailand)

CERTIFICATION

MATLAB Onramp Common Data Analysis Techniques (MATLAB)

Clean and Prepare Data for Analysis(MATLAB)

Classification Methods with Machine Learning(MATLAB)

Advanced: Generative AI for Developers Learning Path (Google)

Google Data Analytics Course (Coursera)

IT Passport Examination 2019 (IT Professional Examination Council)

EDUCATION

King Mongkut's Institute of Technology Ladkrabang (KMITL)

Aug. 2022 – May. 2026

B.E. in Robotics and AI Engineering (Freshman Scholarship Recipient)