

NAY THUTA

Diploma in Engineering with Business



CONTACT INFORMATION:

+65-8423-3073
nay.thuta.sg@gmail.com
linkedin.com/in/naythuta444
naythuta.github.io/my-portfolio

SKILLS:

Programming: C, C++, Java, Python
(Visual Studio, Android Studio, Qt)

Engineering: Circuit Analysis,
Embedded Systems, System Design
Engineering Software: AutoCAD,
SolidEdge, NI Multisim

Data Analytics: Machine Learning,
Predictive Modeling, Data Storytelling
(KNIME, Power BI, Jupyter Notebook)

Business Operations: Project
Management, Financial Reporting,
Lean Manufacturing, ERP Systems

Sales & Marketing: Digital Marketing,
Market Research, Solution Selling,
Technical Presentations

Excellent team-player with strong
communication and leadership
abilities

Adaptable problem-solver with a
quick-learning mindset

EDUCATION:

Diploma in Engineering with Business
(CGPA: 3.79)
Singapore Polytechnic, 2025

PROFESSIONAL SUMMARY:

Versatile and driven **Engineering with Business** graduate from Singapore Polytechnic, skilled in **systems engineering, data analytics, and business strategy**. Adept at translating complex challenges into impactful solutions, such as optimized engineering systems and Power BI insights, through hands-on project development and stakeholder collaboration. As an S-Pass eligible candidate committed to fulfilling my 3-year Tuition Grant bond with a Singapore-registered entity, I aim to secure a **Project Engineer, Process Engineer, Technical Sales Engineer, or similar entry-level role** where I can leverage my multidisciplinary skillset to drive success from day one.

WORK EXPERIENCE:

Project Intern – Autonomous Unmanned Traffic Management System

Singapore Polytechnic, Dover
March 2024 – August 2024

- Coordinated a 22-week autonomous drone delivery project, collaborating cross-functionally with stakeholders to ensure timely development and execution.
- Analyzed 10k+ lines of open-source code to design and implement the custom SPFly plugin, enabling mobile app communication and enhancing system usability.
- Managed 50+ hours of remote pilot testing to validate system functionality and safety compliance, resulting in zero major incidents.
- Delivered high-stakes presentations to technical audiences, including a live proof-of-concept demo, effectively showcasing system capabilities and project outcomes.

Part-time Coffee Specialist

Nespresso, Islandwide
December 2022 – March 2025

- Delivered consultative sales support to 1000+ customers in a fast-paced, high-traffic retail environment, consistently exceeding sales expectations.
- Facilitated product demos and educational sessions to communicate Nespresso's coffee technology and sustainability values, fostering lasting client relationships.
- Executed marketing campaigns and maintained visual merchandising standards, contributing to a premium customer experience and strong brand presence.
- Adapted rapidly to changing sales environments and customer profiles, maintaining a professional, client-first attitude to provide tailored product solutions.

NAY THUTA

Diploma in Engineering with Business

PROJECTS:

[Sustainable Irrigation System for Climate Resilience](#) – PIC18F4550, Embedded C, AutoCAD

- Engineered a microcontroller-based smart irrigation system, integrating hardware components with real-time environmental feedback to optimize water usage and enhance crop resilience.
- Designed precise system layouts using AutoCAD, mapping microcontrollers, sensors, actuators, pumps, and other integrated components to meet M&E specifications and ensure seamless system assembly.

[Wormbrews: Sustainable Fertilizer Startup](#) – Entrepreneurship, Prototyping, Market Validation

- Developed a vermicomposting product concept focused on compactness, odor control, and affordability, which integrates recycled PET plastic components to address urban living constraints and support food waste reduction.
- Led qualitative and quantitative research with 20+ participants, utilizing a prototype to identify key pain points and validate 85.7% interest in eco-friendly composting among urban gardeners.

[Patient Sentiment Analysis for Pharma](#) – Python, VADER, scikit-learn, pandas, Power BI

- Built a sentiment analysis pipeline on 27k+ drug reviews using VADER and KMeans to uncover patterns between patient sentiment and satisfaction ratings.
- Delivered actionable insights via Power BI dashboards, helping pharmaceutical companies track drug perception and inform patient-centric decisions.

CERTIFICATIONS & AWARDS:

Certificate in Entrepreneurship – Singapore Polytechnic, March 2025

- Cultivated practical skills in startup design, business model validation, and financial decision-making by applying ET&A methodology to develop viable business ideas and pitch prototypes.

Certificate of Honour – Mathematical Society of Myanmar, December 2019

- Awarded in recognition of outstanding overall performance after advancing from the Yangon Region preliminary round to the Central-Level (National-Level) examination.

LANGUAGES:

English – Professional Proficiency

Burmese – Native Proficiency