NAY THUTA

Engineering with Business Graduate

CONTACT INFORMATION:

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SKILLS:

Programming Languages: C, C++, Java, Python

Programming Software:
Visual Studio, Android Studio, Qt

Electronics: Circuit Analysis, Circuit Instrumentation, Embedded Systems

Engineering Fundamentals:
Mechanics, Materials Science, Thermofluids, Engineering Calculus

Engineering Software: AutoCAD, SolidEdge, NI Multisim

Data Analytics: Predictive Modeling, Sentiment Analysis, Data Storytelling

Analytic Software: KNIME, Power BI, Jupyter Notebook

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

Marketing: Digital Marketing, Consumer Behaviour, Market Research

Sales: Solution Selling, Technical Presentations, Market Assessment, Customer Lifecycle

Strong entrepreneurial and problem-solving acumen
Excellent communication, collaboration and leadership abilities, demonstrating rapid adaptability

PROFESSIONAL SUMMARY:

Versatile and driven **Engineering with Business** graduate from Singapore Polytechnic, trained in **systems engineering, data analytics, and business strategy**. Adept at translating complex technical solutions into real-world business value through hands-on project development, stakeholder collaboration, and effective communication. Seeking roles such as **Project Engineer, QA Engineer, Sales Engineer, or relevant** where I can apply both technical insight and business acumen to drive team success and create meaningful impact.

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.
- Designed and implemented a Qt-based GUI mission launcher, iterated through 7 software development cycles to streamline system usability, reliability and control.
- 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.

EDUCATION:

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

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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