

NYI MIN SATT NAING (MIN)

SUSTAINABLE ENERGY ENGINEER

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Asian Institute of Technology, Khlong Luang, Pathum Thani 12120, Thailand

PROFILE

Dedicated energy engineer with a background in mechanical engineering and experience in renewable energy project design, power system modelling, simulation, and technical documentation. Currently completing a Master's in Sustainable Energy Transition with a focus on power sector modelling to design decarbonization pathways. Passionate about advancing clean energy solutions and climate change mitigation, with proven technical skills and a strong commitment to impactful, sustainable development.

EDUCATION

Master of Engineering in Sustainable Energy Transition

Aug 2023 - Dec 2025

Asian Institute of Technology (Thailand)

- CGPA - 3.56 out of 4
- Research Focus: Integrated power system modelling for decarbonization pathways using advanced storage technologies to enable carbon-neutral, energy-secure electricity systems

Bachelor of Engineering in Mechanical Engineering

Dec 2013 - Nov 2019

Technological University (Taunggyi), Myanmar.

- CGPA - 4.5 out of 5
- Bachelor's Thesis: Performance Analysis of Cooling Tower in Combined Cycle Power Plant, focused on thermal performance and efficiency assessment.

PROFESSIONAL EXPERIENCE

Research Associate. SMARTS Center, Asian Institute of Technology, Thailand.

February 2026 - Present

- Run quantitative analyses on large datasets to support scenario development and research outputs.
- Produce evidence syntheses (systematic literature reviews) and contribute to reports and presentations.
- Support project coordination

Project Engineer Associate. Indigo Energy, Yangon, Myanmar.

June 2022 - May 2023

- Led the development of a Google Earth-based database for renewable energy projects in New South Wales using QGIS and Google Earth.
- Designed and simulated solar PV systems for residential and C&I clients using Helioscope, PVsyst, and HOMER Pro.
- Prepared detailed plan sets and technical documentation for residential solar systems, including solar shingles and microinverters, using Aurora and Solar Pro Tools.
- Conducted site surveys and assessed technical feasibility for solar installations.

Service Engineer. Ever Glory Medical Co., Ltd., Yangon, Myanmar.

Dec 2020 - Nov 2021

- Performed preventive and corrective maintenance on medical equipment to ensure safe and reliable operation.
- Assisted with installation, commissioning, calibration, and testing of new medical devices.
- Managed service documentation and administrative tasks to support efficient customer service.
- Responded to customer complaints and provided technical guidance to resolve equipment issues.

Internship Trainee. Toyo-Thai Power Myanmar Co., Ltd., Yangon, Myanmar.

May 2019 - July 2019

- Carried out routine and preventive maintenance on plant equipment to support reliable operation.
 - Conducted inspections to identify potential issues and reduce unplanned downtime.
 - Assisted in repair and replacement of critical components to improve plant efficiency.
 - Supported monitoring and control of power plant systems in line with safety and performance standards.
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ADDITIONAL SKILLS

- **Technical:** Renewable Energy System Design & Simulation, Energy System Modeling, Power Plant Systems Operations, Project Coordination & Site Surveying, Technical Documentation & Reporting
- **Software:** AutoCAD, PVsyst, Homer Pro, Helioscope, RETScreen, QGIS, MATLAB, Bioenergy Food Security Rapid Appraisal Tool, PLEXOS, LEAP
- **Memberships:** Student Energy AIT Chapter, Thailand. | Myanmar Engineering Society (No- 096672 – SMM)
- **Languages:** Burmese (native), English (Professional proficiency), French (A1), Thai (Basic)