Dino Arla

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EDUCATION

Sepuluh Nopember Institute of Technology (ITS) — **Surabaya, Indonesia**
Engineer's degree (Ir) — *Aug 2025 - Dec 2025*
- *Professional Engineer Program*

Sepuluh Nopember Institute of Technology (ITS) — **Surabaya, Indonesia**
Master's of Technology Management (M.MT) — *Aug 2023 - Aug 2025*
- *Major in Business Analytics.*
- *Thesis on "Optimization of Electricity Theft Detection Based on Automated Machine Learning Through Multivariable and Cost-Sensitive Learning Approaches: A Case Study at PT PLN (Persero) Distribution Unit of West Java", supervised by Dr. Achmad Choiruddin, S.Si., M.Sc.*
- *Awardee of 2025 Interdisciplinary School of Management & Technology Research Grant Scheme.*

Tanjungpura University — **Pontianak, Indonesia**
Bachelor of Engineering (ST) — *Sep 2013 - Jul 2017*
- *Major in Control Engineering.*
- *Final Project on "AQORTA (Air Quality and Noise Real Time Data Acquisition): An Integrated Air Quality and Noise Telemetry System with Solar Power System", supervised by Dr. Eng. Ir. Ferry Hadary, ST., M.Eng., IPM., CRA.*
- *Dean of the Faculty of Engineering Award for Fastest Graduate.*

EMPLOYMENT

Co-Supervisor, Undergraduate Thesis — **Surabaya, Indonesia**
Sepuluh Nopember Institute of Technology (ITS) — *Jun 2025 - Present*
- *Assisted in supervising a bachelor student's thesis project in the Department of Statistics ITS, focusing on Machine Learning, Anomaly Detection and Spatial Statistics.*

Team Leader of Energy Transaction — **Bandung, Indonesia**
PLN Distribution Unit of West Java — *Feb 2023 - Present*
- *Initiated and led the development of MAGNETO, a machine learning–based ranking system for prioritizing electricity theft (P2TL) operations, enabling data-driven target selection and delivering an estimated annual financial impact of IDR 334 billion in recovered revenue and cost savings.*

Assistant Analyst for Electrical Network and Customer Data Mapping — **Bandung, Indonesia**
PLN Distribution Unit of West Java — *Jan 2022 - Jan 2023*
- *Developed KINEMATICS 4DX, a performance monitoring and data analytics system integrating spatial and operational data, which enhanced asset and network oversight and generated approximately IDR 271 million in annual efficiency gains and cost savings.*

Assistant Engineer for Transaction Meter Maintenance — **Bandung, Indonesia**
PLN Distribution Unit of West Java — *Jan 2019 - Dec 2021*
- *Designed and implemented TX-Cent, a centralized transaction meter execution and monitoring system that improved measurement accuracy and maintenance effectiveness, resulting in approximately IDR 460 million in annual financial gains and operational savings.*

Junior Engineer Technology and Information — **Kubu Raya, Indonesia**
Power Plant Sector of Kapuas, PLN Regional Kalimantan — *Jul 2018 - Dec 2018*
- *Created SIMBA Apps, an interactive GUI–based fuel oil information system supporting power plant operations, significantly improving fuel monitoring and control and delivering an estimated annual financial impact of IDR 488 billion in cost savings and efficiency improvements.*

TEACHING EXPERIENCE

Applied Machine Learning for Business Value Creation: From Data Science to Real-World Strategy — Nov 2025
- *Guest Lecture, Faculty of Science and Data Analytics, Department of Statistics ITS*

Knowledge Sharing Forum: "Knowledge to Impact, Toward the Global 500" — Jun 2025
- *Speaker, PLN Learning Centre of Pandaan*

Innovation Paper & Presentation — Feb 2025
- *Instructor, PLN Nusantara Power, Kapuas Power Generation Unit*

MAGNETO: Machine Learning for Ranking System to Prioritize P2TL Target Operation — Jun 2024
- *Instructor, PLN Distribution Unit of West Java*

AWARDS & CREDENTIALS

Best Paper and Best Presenter of ICoDSA 2025 — Jul 2025
- *The 8th International Conference on Data Science and Its Applications (ICoDSA) 2025 at Jakarta*

3rd Winner of Learning Innovation Knowledge Exhibition (LIKE) 2024 — Oct 2024
- *PLN Research and Development Centre, Grand Final at Jakarta*

Golden Ticket Awardee of Innovation Contest 2024 — Aug 2024
- *PLN Research and Development Centre, Regional selection at Padang, West Sumatera*

1st Winner of Innovation Contest 2024 — Jun 2024
- *PLN Distribution Unit of West Java, Bandung*

1st Winner of Innovation Contest 2022 — May 2022
- *PLN Distribution Unit of West Java, Bandung*

PUBLICATIONS & BOOK

- Haramaini, Q., **Arla, D.**, & Sidiq, M. H. (2025). EnerBit (Energy to Bitcoin): A Strategy Model for Monetizing Idle Power Surplus intoIndonesia National Foreign Exchange. The 5th ASEAN International Conference on Energy and Environment (AICEE), 138–138.
- **Arla, D.**, Sanjaya, C. W., Hidayah Sidiq, M., Haramaini, Q., & Fadliqaf, S. H. (2025). Eco En Liza (Utilization of Diesel Engine Coolant Waste Energy as a Source of Electricity for Micro Hydroelectric Power Plants). 2025 International Conference on Technology and Policy in Energy and Electric Power (ICT-PEP), 348–353. https://doi.org/10.1109/ICT-PEP67281.2025.11232224
- **Arla, D.**, & Choiruddin, A. (2025). Machine Learning-based Electricity Theft Detection Considering Customer Consumption Pattern and Geographical Condition. 2025 International Conference on Data Science and Its Applications (ICoDSA), 534–539. https://doi.org/10.1109/ICoDSA67155.2025.11157579
- Haramaini, Q., Setiawan, A., Sidiq, M. H., **Arla, D.**, & Garniwa, I. (2024). Exploring the Relationship between Solar Panel Adoption and Socio-Economic Factors: A Case Study of Urban Households in Developing Countries. Journal of Electrical Systems, 20(5s), 2737–2754. https://doi.org/10.52783/jes.2756
- Sidiq, M. H., **Arla, D.**, Fadliqaf, S. H., & Haramaini, Q. (2024). Anti Theft Power Smart Metering System. 2024 International Conference on Technology and Policy in Energy and Electric Power (ICTPEP), 287–290. https://doi.org/10.1109/ICT-PEP63827.2024.10732892
- Haramaini, Q., **Arla, D.**, & Garniwa, I. (2023). *A Telemetry System for Real-Time Air Quality and Noise Monitoring in Urban Areas Based on IoT Technology*. Tuijin Jishu/Journal of Propulsion Technology, 44(6), 446–455.
- Hadary, F., Rezeki, S., Jati, D., **Arla, D.**, & Setyawan, W. (2023). *Inovasi Sistem Pengukuran Kualitas Udara Terintegrasi Solar Power System Berbasis Internet of Things (IoT)*. CV. Literasi Nusantara Abadi.

PATENT

Hadary, F., **Arla, D.**, Rezeki, S., Jati, D., & Rustamaji, R. M. (2023). AQORTA (Air Quality and Noise Real Time Data Acquisition) Sistem Telemetri Kualitas Udara dan Kebisingan Terintegrasi Solar Power System (Patent P00202112421).