

# Devis Wawan Saputra

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## Research Interests

I work at the intersection of data-centric machine learning and evidence-based Learning & Development (L&D). My primary research interest is improving the reliability of ML-enabled systems through better data pipelines, data quality practices, and reproducible data-to-model workflows. My second research interest is designing workplace learning systems that measurably improve performance, using learning analytics and AI to personalize learning paths, evaluate outcomes, and continuously improve training programs.

## Education

**2012–2014**

### **MBA in International Business**

THWS – Technical University of Applied Sciences  
Würzburg-Schweinfurt, Germany

- Thesis: Leadership on Flat Organizational Structures (focusing on Organizations using self-managing teams and open allocation strategy).
- Advisor : Prof. Dr. Arnd Gottschalk

**2004–2010**

### **B.Eng., Informatics**

Institut Teknologi Bandung (ITB), Indonesia

- Thesis: Image Retrieval System Using Geotagged Information (EXIF data).
- Advisor : Ir. Rila Mandala, M.Eng., Ph.D.

## Academic Experience

**2016–2023**

### **Lecturer of Engineering Management Program**

Institut Teknologi Del, Laguboti, Indonesia

- Taught Systems Thinking, Entrepreneurship, Engineering Economics and Capstone Project.
- Supervised 200+ final-year projects/capstones (software, system evaluation, prototyping, AI applications).
- Integrated AI-based methods and digital tools into the curriculum to strengthen technical readiness and education technology.
- Revised the academic curriculum (2019–2024) and coordinated industry collaboration.

## Professional Experience

2023–2024

### Learning and Development Manager

Suitmedia, Jakarta, Indonesia

- Spearheaded development of Rocketiversity (proprietary LMS) used to onboard 100+ new hires.
- Reduced time-to-productivity by ~30% via AI-personalized onboarding pathways and self-paced modules.
- Conducted evaluation and testing of system reliability and usability.

2015

### Program Manager (Health Tech Initiative)

Summit Institute of Development, Mataram, Indonesia

- Managed development of Open Smart Register (Android app) for maternal and child health.
- Oversaw validation and adoption in regional clinics; and report the progress using qualitative or quantitative research methods

2011

### R&D Engineer

PT Cipta Srigati Lestari, Jakarta, Indonesia

- Developed Java-based optimization tools for B2B supply chains.

## Research

- **2022** Internal fund project: Analysis of **sport tourism** potential in the Lake Toba area
- **2019** National competitive grant (PDP/Dosen Pemula): Performance Investigation of **Geothermal Power Plant** Based on **Exergy and Exergoeconomic Analyses** (Case Study: Sarulla Geothermal Power Plant)
- **2019** Internal fund project: Manufacturing and Application of **Andaliman Drying Tools** to Increase the Productivity of Andaliman Derivative Products (Case Study: Eden Park 100)
- **2019** Internal fund project: Development of Toba **Andaliman** (*Zanthoxylum Acanthopodium*) **derivative products** and **community-based supply chain** as a superior product of Toba Samosir supporting Lake Toba as a national strategic tourism area

## Selected Publications

- Silalahi, F. T. R., Saputra, D. W., *et al.* (2022). **Influencing student choice: A case study of a boarding private university in Indonesia.** *Proceedings of ICEBE*. [https://doi.org/10.2991/978-2-38476-064-0\\_46](https://doi.org/10.2991/978-2-38476-064-0_46)
- Sinaga, R. H. M., & Saputra, D. W. (2019). **Performance investigation of a geothermal power plant based on exergy and exergoeconomic analysis.** *IOP Conference Series: Materials Science and Engineering*. <https://doi.org/10.1088/1757-899X/546/7/072006>

## Books

- Saputra, D. W., Siboro, B. A. H., & Sinaga, C. (2022). **Methodology for the implementation of practical work in engineering management.**
- Saputra, D. W. (2019). **Curriculum of the Engineering Management Program, Del Institute of Technology (2019–2024).**