FAYIZ HENDRIAN

ELECTRICAL ENGINEERING STUDENT | MANUFACTURING & PROCESS ENGINEERING

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PROFESSIONAL SUMMARY

Electrical Engineering undergraduate at Telkom University experience in IoT, embedded systems, electronics design, and manufacturing operations, including production cycle time observation during an internship at Toyota Motor Manufacturing Indonesia (TMMIN) and multidisciplinary engineering projects. Experienced in CAD-based mechanical modeling and supporting the development of practical engineering systems through laboratory activities. Interested in manufacturing and process engineering, production improvement, mechanical design, and industrial automation. Brings a foundation in SolidWorks, AutoCAD, embedded systems, and structured problem solving.

EDUCATION

Bachelor of Electrical Engineering | Telkom University 2022 – Present

- Undergraduate student.

EXPERIENCE

Engineering Service Intern | Toyota Motor Manufacturing Indonesia (TMMIN) 1 Jul – 31 Aug 2025

- Observed manufacturing operations in the Cylinder Block and Crankshaft production areas.
- Recorded machine cycle times and compared observed operating times with production takt-time targets.
- Reviewed production activities and potential process-adjustment opportunities as part of cycle-time improvement analysis.

Research Assistant | INACOS Laboratory, Telkom University Mar 2024 – Present

- Contribute to faculty-led research activities through CAD modeling and mechanical-system development.
- Support the design and development of mechanisms for research-based devices and interdisciplinary engineering projects.
- Participate in engineering initiatives and competitions, including KMHE and Innovillage 2024.

Treasurer | INACOS Laboratory, Telkom University Mar 2024 – Mar 2025

- Maintained records of laboratory income and expenses, managed cash flow, and prepared periodic financial reports.

ENGINEERING PROJECTS & ACTIVITIES

Engineering Project Contributor | INACOS Laboratory

- Participated in the development of an Autonomous Ground Vehicle (AGV) and a controllable robotic arm.
- Contributed to university engineering teams participating in Kontes Mobil Hemat Energi (KMHE) and Innovillage 2024.

Global Engineering Project | Hanbat National University, South Korea 2024

- Participated in an outbound short-course program and an international engineering learning environment.

SKILLS AND ADDITIONAL INFORMATION

CAD & Mechanical Design: SolidWorks (mechanical modeling and mechanism simulation), AutoCAD **Programming & Embedded Systems:** Arduino, ESP32, microcontroller programming
Manufacturing & Process: Cycle-time observation, takt-time comparison, process-improvement analysis
Professional Skills: Problem solving, teamwork, communication
Languages: Indonesian (Native), English (Intermediate)