



AFFAN LESTYANTO ARDI

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About Me

I am a Mechanical Engineering graduate from University of Singaperbangsa Karawang, with hands-on experience in manufacturing engineer, production engineer, quality control, maintenance, and SHE. Through internships at leading companies such as PT Komatsu Undercarriage Indonesia and PT Wuling Motor Indonesia, during my internship as a Manufacturing Engineer, I was involved as a Production Engineer, implementing kaizen, implementing gemba, and running 5S in the company. Not only that I also maintain quality control so that the company can be trusted by consumers.

I also have skills in the use of engineering software such as AutoCAD, Solidwork and ANSYS. In addition, I have safety expertise in forklift operation, how to operate forklifts and already have certification from the Indonesian Ministry of Employment. In addition to my industry experience, I conducted a final research project about energy efficiency. I also have a solid understanding of HVAC system and energy conversion.

Skill

- **Soft Skill** : Team Work, Problem Solving, Critical Thinking, Communication, Leadership, Organization, Adaptability, Public Speaking and Time Management.
 - **Hard Skill** : AutoCAD, Solidwork, ANSYS, Data Analysis, Quality Control, Energy Conversion, Production Engineer, Manufacturing Engineer, HVAC and Maintenance.
 - **Software** : Microsoft Office, Google Suite.
 - **Language** : Indonesia (Proficient), English (Intermediate).
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Education

University of Singaperbangsa Karawang

(2020-2024)

S1 Mechanical Engineering – GPA 3.52

Work Experience

Assistant Lecturer of Basic Phenomena Practicum

2023 - 2024

- Teaching and preparing lab equipment.

PT. Komatsu Undercarriage Indonesia

April – June 2023

Manufacturing Engineering - Internship

- Conducting an improvement with the title “Improvement of Liquid Waste Management Plan Used in Broaching Machine Production Using the Engineering Process Design Method”.
- Reducing the workplace accident rate from level 3 to level 1.
- There are 4 benefits of this improvement, Safety, as it can reduce the number of workplace accidents, Environment, as it creates a clean environment and avoids odors caused by liquid waste, Costs, as it eliminates forklift costs and reduces labor, Legal Compliance, as it complies with workplace safety regulations under Law No. 1 of 1970 and Regulation of the Minister of Health of the Republic of Indonesia No. 70 of 2016.

PT. Wuling Motor Indonesia

October 2018 – January 2019

Quality Control - Internship

- A thorough inspection of the car body for damage such as dents and scratches.
- Testing car for leaks so that during the rainy season your car remains safe and there are no leaks through gaps such as door gaps, front and rear windows, and side windows.
- Testing on cars, such as testing on inclines to ensure that the braking system is functioning safely, testing acceleration, throttle response, gear shifting, and engine vibration to ensure engine and transmission performance, testing the stability of the car when cornering, driving on straight roads, and on bumpy roads, testing the comfort of the suspension and vibration damping to ensure that the handling and suspension are functioning properly.
- ECU and emission testing, ensuring that the electronic system is working properly, ensuring that calibration and programming are in accordance with standards, testing exhaust gases in accordance with emission standards to ensure compliance with regulations.

Organization and Committee Experience

Badan Legislatif Mahasiswa

2022 - 2023

Commission A

- Development of organizational resources and aspects of interest and talent.
- Create and design SOP for the bureaucracy of ormawa in the Faculty of Engineering.

Mechanical Engineering Cup

2021

Secretary

- Making letters.
- Record meeting minutes.
- Make an accountability report.

BLM & BEM FT UNSIKA

May 2021

Public Relations

- Establishing and maintaining communication with officials within the faculty and senior officials on campus, such as deans and rectors, and establishing communication with student organizations such as student associations (by department/study program).

Certification and Online Course

Course English

May 2025

Kampung Inggris Pare

Certification on work safety | Lift Aircraft and Transport Aircraft

February 2025

Kementrian Ketenagakerjaan RI

Awards

National Scientific Paper

October 2024

Kementerian Pendidikan, Kebudayaan, Riset Dan Teknologi - Universitas Negeri Padang
Pusat Pengembangan Ilmiah Dan Penelitian Mahasiswa.

“Perancangan Website Media Pembelajaran Interaktif Kosakata Bahasa Jepang Untuk Pemula Menggunakan Articulate Storyline 3”.

Publication of Scientific Work

Barometer

March 2025

Accreditation SINTA 4

“Pengaruh Jenis Phase Change Material Minyak Goreng, Lilin, Liquid, Dan Dry-Ice Gel Pada Variasi Temperatur Dinding Freezer”.

(<https://journal.unsika.ac.id/index.php/barometer>)

“Design of a Storage Tub for Disposal of Coolant Waste from Broaching Machines Using Solidwork and ANSYS Simulation Software”.

(<https://jurnal.ustjogja.ac.id/index.php/sciencetech/article/view/17257>)