

ZAHRA NASYWARI FIRDANTARA

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PERSONAL PROFILE

A fresh graduate in Industrial Engineering with a strong passion for learning, discipline, and responsibility. Experienced in data analysis, Value Stream Mapping (VSM), and implementing kaizen to achieve up to 21% productivity improvement. Equipped with excellent time management, interpersonal communication skills, and proficiency in statistical and data mining software such as SPSS. Ready to contribute to enhancing operational efficiency and supporting data-driven decision-making.

EDUCATION

Universitas Islam Indonesia

Sep 2020 – Sep 2024

Bachelor of Industrial Engineering; Cumulative GPA: 3.59/4.0

- Thesis: Analysis of Waste and Operator Workload using the Waste Assessment Model (WAM) and NASA-TLX to Increase Productivity (Case Study: Section Keyboard Assy UP, PT Yamaha Indonesia)

WORK EXPERIENCES

Production Engineering Internship, PT Yamaha Indonesia

Feb 2024 – Aug 2024

- Identified root cause and improvement opportunities at each process stage to achieve a more efficient and productive workflow.
- Achieved a 21% productivity increase by optimizing processes and reducing waste.
- Successfully implemented 35 kaizen or continuous improvements to create sustainable efficiency solutions.

Data Entry (Freelance), PT Rajawali Berdikari Indonesia

Des 2024 – Mar 2025

- Verified customer data and conducted thorough validation of identification documents to ensure compliance with company policies and regulatory standards, maintaining strict confidentiality.
- Processed 1,000–3,000 data entries daily while ensuring accuracy, reliability, and operational efficiency.

Agent EKYC (Freelance), PT Asia Outsourcing Services

Sep 2020 – Des 2024

- Conduct comprehensive KYC due diligence by collecting and verifying customer identification documents to validate identities and backgrounds in compliance with internal policies and regulatory standards as many as 500-600 data per day.
- Maintain well-organized, accurate documentation of all KYC activities, including customer documents in accordance with internal regulation and requirements.

Production Internship, PT Sinar Semesta

Oct 2023 – Nov 2023

- Analyze and observe how a product is made
- Make a practical work report with a case study of selecting the best mild steel plate supplier using analytical hierarchy process method.

Laboratory Assistant, Basic Physics Laboratory

Sep 2023 – Mar 2024

- Taught and guided 40-50 students per session, ensuring a comprehensive understanding of fundamental physics concepts.
- Designed and developed 13 learning modules on topics such as thermodynamics, electricity, magnetism, and material mechanics.

Laboratory Assistant, Data Mining Laboratory

May 2021 – Jul 2022

- Conduct statistical data processing using ANOVA, Chi-Square, T-Test, and Correlation Regression methods using SPSS.
- Conduct decision-making analysis using AHP, ANP, Clustering, Classification, and AR-MBA methods with tools such as RapidMiner and Super Decision Software.

PROJECT

Value Stream Mapping (VSM) in Final Check and Repair UP Section, PT Yamaha Indonesia

- I successfully increased productivity by 21% in Final Check and 6% in Repair Up. This was achieved by adjusting the number of operators based on line balancing calculations and reducing defects by 50% through root cause analysis. Additionally, I implemented Kaizen initiatives, including a digital inspection system, jig creation, and other supporting tools to enhance overall efficiency.

Value Stream Mapping (VSM) in Keyboard Assy UP Section, PT Yamaha Indonesia

- I successfully increased productivity by 15%. This was achieved by adjusting the number of operators using line balancing calculations, reducing waste through Kaizen implementation, including creating support tools, optimizing the delivery schedule from the warehouse, and modifying drilling and reheating machines for improved efficiency.

ANAKOS, Big Project Human Computer Interaction

- I contributed to the Anakos project by conducting user persona analysis and usability testing to identify and address the needs of college students in kost or rental housing. I helped design and refine service features, such as laundry, room cleaning, and water refills, ensuring a seamless user experience. Additionally, I analyzed competitor platforms and collaborated with the team to develop innovative solutions that enhance convenience and save time for users.

Child's Fun Table, Big Project Integrated Industrial Systems Design

- I contributed to the Child's Fun Table project by conducting market research to identify customer needs and preferences, including features like adjustable chairs and educational games. I designed the Business Model Canvas (BMC) and Value Proposition Canvas (VPC) to align the product with market demands. Additionally, I analyzed competitor products, developed innovative features such as RFID-based attendance systems, and ensured the product enhanced children's motor skills and provided a safe, engaging learning experience.

Re-Design Airplane Ticket Booking Website for People with Disabilities Using Usability Methods and User Centered Design, Big Project Work Systems Engineering and Ergonomics

- I improved the tiket.com website's accessibility for passengers with disabilities by conducting usability testing and applying User-Centered Design principles. This redesign introduced disability-specific features and streamlined workflows, boosting usability by 19%.

ORGANIZATIONAL EXPERIENCES

Treasurer, Yayasan Seribu Satu Cita Yogyakarta

Mar 2023 – Mar 2024

- Managed the foundation's budget to ensure fund allocation aligned with objectives, recorded all financial transactions, and prepared regular financial reports.
- Collaborated with the central treasurer to oversee donation funds effectively.

Functionary of Advocacy and Network, Lembaga Eksekutif Mahasiswa (LEM) FTI UII

Jun 2022 – Jan 2023

- Collected, managed, and implemented students' aspirations to address their needs and concern effectively.
- Organized advocacy-related educational programs to empower students in critical discussions and initiatives.
- Fostered partnerships with 15 external institutions to enhance student development and strengthen organizational networks.

Steering Committee (Commission B), Pesona Taaruf UII

Jul 2022 – Aug 2022

- Designed the committee structure, created job descriptions, and carried out the recruitment of 100 committee members.
- Developed and implemented rules and guidelines for committee members and participants, ensuring smooth and organized program execution.

COURSES AND CERTIFICATIONS

- **Occupational Scheme of Young Industrial Hygienist (HIMU)** by Badan Nasional Sertifikasi Profesi (BNSP)
- **Introduction to SAP S/4 HANA with GBI** by SAP University Alliances
- **Certificate of English Proficiency Test (CEPT with score 443)** by Cilacs UII

PUBLICATIONS

- **Supplier Selection Modeling and Analysis in the Metal Casting Industry Using Analytical Hierarchy Process** in Advance Sustainable Science, Engineering, and Technology.

SKILLS

Technical	: Lean Manufacturing, Process Improvement & Optimization, Kaizen Implementation, Six Sigma, Time Study, Value Stream Mapping (VSM), Data Analysis & Problem-Solving, Facility Layout Design.
Tools	: Solidwork, Fusion 360, SAP, SPSS, MS Office (Word, Excel, Power Point), Python, Jupyter Notebook, R Studio, FlexSim, RapidMiner, Super Decision, WinQSB, Microsoft SQL.