



NADYA ARETHA PUTRI

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Fresh graduate with a Bachelor's degree in Mechanical Engineering from Institut Teknologi Sepuluh Nopember, with a strong interest in production and manufacturing. Experienced in administrative tasks using Microsoft, technical documentation, and layout drafting using AutoCAD. Actively achieved recognition in national and international robotics competitions and involved in professional and scientific student organizations. Detail-oriented, structured, and capable of working in a fast-paced environment. Ready to contribute to efficient warehouse and PPIC operations.

Academic Experiences

PT. Real Teknik Engineering - Gresik, Indonesia

May 2025 – Nov 2025

Freelance Social Media Marketing

- Managed company social media platforms (Instagram, LinkedIn, and Facebook) to strengthen branding and expand client reach.
- Created educational and promotional content about industrial engineering projects, combining design and copywriting to effectively communicate technical topics to potential clients.

Thermal Engineering and Energy Systems Laboratory - Surabaya, Indonesia

Jan 2025 – Jul 2025

Teaching Assistant

- Conducted teaching sessions on heat transfer, covering conduction, convection, and radiation, for 42 mechanical engineering students in alignment with the curriculum.
- Evaluated and assessed student's knowledge through assignments, quizzes, mid-term, and final examinations.

Metallurgy Laboratory - Surabaya, Indonesia

Jan 2024 - Dec 2024

Laboratory Assistant

- Guided and supervised 40+ undergraduate mechanical engineering students in conducting Destructive Testing (Tensile, Impact, and Hardness Tests), Non-Destructive Testing (NDT) (Liquid Penetrant, Magnetic, and Ultrasonic Testing), and microstructure characterization.
- Evaluated and provided feedback on lab reports, helping students deepen their understanding of metallurgical principles and achieve satisfactory outcomes, with 100% of students earning an A grade.
- Guided and assessed students in the proper use of metallurgical equipment, including optical microscope, Brinell, Vickers, and Rockwell hardness testers skills through written, oral, and practical examinations across 5 group sessions per semester.

PT. Indospring, Tbk. - Gresik, Indonesia

Jan 2024 – Mar 2024

Mechanical Design Engineering Intern

- Assisted in designing a transfer conveyor machine at Line 9 using SolidWorks, including dimensioning, applying tolerances, welding symbols, and preparing the Bill of Materials (BOM).
- Assisted in creating the layout of Plant 2 at PT Indospring Tbk using AutoCAD, covering building areas, green areas, and utility zones.
- Conducted on-site genba observations of the automotive spring fabrication process, gaining hands-on exposure to heat treatment stages such as tapering, coiling, quenching, and tempering.

Education

Institut Teknologi Sepuluh Nopember - Surabaya, Indonesia

Jun 2021 - Sep 2025

Bachelor of Mechanical Engineering, 3.32/4.00

- Final Project – Experimental Study On The Performance Enhancement Of Monocrystalline Photovoltaic Using Nano Enhanced Phase Change Material (NePCM) Cooling System Based On Paraffin Wax - Al_2O_3
 - Conducted photovoltaic performance testing using data logger and multimeter across five design variations: Photovoltaic without cooling, with pure PCM, and NePCM with 1%, 2%, and 3% Al_2O_3 . The 3% Al_2O_3 mixture achieved the best performance, increasing photovoltaic efficiency up to 22.69%.
 - Applied metallurgical knowledge in material selection by evaluating thermal conductivity (heat transfer capability), melting temperature (suitability with PV operating range), and latent heat (energy storage capacity).
- Capstone Design Project – Utilization of Ocean Currents as an Electricity Source for Fishing Vessels in Kenjeran, Surabaya
 - Designed and built a prototype water current turbine to generate electricity for local fishing vessels by utilizing ocean currents as a renewable energy source.
 - Conducted field interviews with fishermen in Kenjeran, Surabaya to assess electricity needs, identifying requirements for 10 LED lamps (15W each) and 4 floodlights (200W each).
- Simbelmawa Kemendikbud PKM-KC 2025 – Smart Solar-Powered Robot Sprayer for Sustainable Agriculture
 - Developed a solar-powered robot for pesticide spraying, equipped with remote control and dual-nozzle spraying system to improve distribution efficiency.
 - Designed the mechanical structure using SolidWorks and simulated the electrical system with Arduino/ESP32, sensors, and motor drivers.

Organizations

Mechanical Engineering Student Association - Surabaya, Indonesia

Apr 2023 – Feb 2024

Secretary, Department of Professional and Scientific Development

- Responsible for administrative tasks including drafting and submitting proposals, correspondence, and financial documents within the department.
- Assisted in preparing and submitting the proposal for an Ansys Fluent software training in collaboration with TeknoSains ITS for Mechanical Engineering students, successfully waiving 100% of participant fees through coordination with department management.
- Provided recommendations for laboratory and thesis topic selection to 100+ students using a structured questionnaire based on their interests, competencies, and academic performance.

Mechanical City VI - Surabaya, Indonesia

Jun 2023 - Nov 2023

Head of Social Media Marketing Subdivision

- Coordinated with an 8-member team to develop and implement marketing strategies, including partnerships with KOLs, copywriting, and social media content creation to support event promotion.
- Managed social media platforms (Instagram and TikTok), achieving more than 100,000 views and delivering 70 posts within 4 months.

IRIS Robotics Team - Surabaya, Indonesia

Dec 2022 - Dec 2023

Head of Branding and Design

- Responsible as social media specialist, managing content for Instagram, LinkedIn, and Website, focusing on branding and increasing audience engagement.
- Coordinated publication designs and supervised content creation for promotional needs.
- Designed the team's robot brand identity, which was competed in the Best Design category at the 2022 & 2023 Indonesia Robot Contest.

Ini Lho ITS! 2023 - Surabaya, Indonesia

Oct 2022 – Feb 2023

Head of Talent Management Subdivision

- Developed and introduced the Campus Influencer Program, a new initiative engaging 50 ITS students from various departments to promote their study programs through social media content.
- Managed the Student Ambassador Program, successfully attracting 600+ applicants nationwide and maintaining high engagement throughout the campaign.
- Collaborated with a 22-member team in talent development, content strategy, and event coordination, resulting in significant digital reach and improved nationwide visibility.

Skills

Hard Skills : Social Media Marketing, Talent Management, AutoCAD, SolidWorks, Material Testing (Destructive & Non-Destructive), Microsoft (Excel, Word, Teams), HIRADC (Hazard Identification, Risk Assessment, and Determining Control), JSA (Job Safety Analysis), Project Planning.

Soft Skills : Public relation, Negotiation, Networking, Leadership, Team coordination, Analytical thinking, Detail oriented, Problem-solving, Time management, Adaptive.

Achievements

Kontes Robot Indonesia (2023)

- 3rd Place – Kontes Robot Sepak Bola Beroda Indonesia (KRSBI-B) Nasional
- 2nd Place – Kontes Robot Sepak Bola Beroda Indonesia (KRSBI-B) Regional II

Kontes Robot Indonesia (2022)

- 1st Place – Kontes Robot Sepak Bola Beroda Indonesia (KRSBI-B) Nasional
- 1st Place – Kontes Robot Sepak Bola Beroda Indonesia (KRSBI-B) Regional II

RoboCup Asia-Pacific (2022)

- 1st Place – Cooperation Challenge, Middle Size League
- 1st Place – Open Challenge, Middle Size League

Training

- **AutoCAD Certified User** ✓ (2025) – Autodesk
- **LG AC Educare Training** ✓ (2025) – PT. LG Electronics Indonesia
- **Operational Safety Excellence Training** ✓ (2024) – Fleetnix
- **Latihan Keterampilan Manajemen Mahasiswa - Tingkat Dasar (LKMM – TD)** ✓ (2022) – Mechanical Engineering Student Association