

NUR RAWDOTUL JANNAH

INSTRUMENT ENGINEER

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SUMMARY

A highly motivated graduate who completed a 3.5 years program at Telkom University with a cum-laude distinction. Proficient in Microsoft Office, AutoCAD, CorelDRAW, Dev C++, Multisim, and various other digital tools, demonstrating strong adaptability in the modern technological landscape. Possesses excellent time management skills, balancing academic excellence with active participation in organizations, competitions, and research projects. Extensive experience in both research and professional settings has refined analytical thinking, attention to detail, and problem-solving abilities.

EDUCATION

Telkom University – Bandung, Indonesia

August 2020 – February 2024

S-1, Engineering Physics

GPA: 3.80

Area of interest: Instrument

EXPERIENCE

Assistant Engineer | PT Putranata Adi Mandiri

November 2024 – Present

- Conducted material checklists and prepared detailed FAT (Factory Acceptance Test) reports.
- Developed and updated technical documentation, including cable schedules and logic diagrams for IGB-6, IRF-1, and IPX-3 at Kilang Pertamina Internasional RU IV, to support the 2025 Turnaround preparation.
- Performed termination and loop checks for IGB-6 and IR-1 to ensure system integration and functionality. Also, assisted in terminating RC panels in the IPX-3 area to support electrical and instrumentation system readiness.
- Conducted safeguard tests for IGB-6 and IR-1 to verify the proper operation of the Emergency Shutdown System (ESD), ensuring it functions correctly in critical situations.
- Conducted Partial Discharge testing to assist Sales Engineers in improving product appeal and marketability.

Founders | Startup Bank Tutor

December 2022 – Present

- Designing Key Performance Indicators (KPI) to standardize an effective teaching system for tutors.
- Monitor and evaluate tutor performance to ensure that teaching quality standards meet KPI.
- Managed and created financial bookkeeping journals for Bank Tutor, ensuring accurate and transparent financial records that facilitated informed decision-making.
- Collaborate with the team to create business development strategies.

Instrument Engineer | Atmospheric Environmental Laboratory

October 2022 – February 2024

- Determine the CO mass flow rate formula and design the CO system analyzer with the team on the CO2 detector project in collaboration with LIPI.
- On projects UDARAKU, design a data transmission system using two LoRa Transmitters to one LoRa Receiver with an ESP32 microcontroller.
- Create an effective PCB design to reduce cable usage in each subsystem project UDARAKU.

Instrument Engineer at EIE | PT Kilang Pertamina Internasional RU IV

July – August 2023

- Understand and analyze system integration effectiveness safeguards and interlocks via P&ID and logic diagram system units 240K-101.
- Controlling the LOC III area with Pertamina senior engineers and actively participating in handling troubleshooting by understanding the problems that occur to execute appropriate troubleshooting.
- Learn and practice operating Distributed Control Systems (DCS) directly to understand the storage process until data is backed up on each instrument.
- Create a cause-and-effect table for all instruments on the 240K-101 unit so that appropriate controls can be implemented to manage risks.

AWARDS

Graduates with the Best Student Achievements - Faculty <i>Dean of the Faculty of Electrical Engineering Telkom University</i>	<i>May 2024</i>
Finalist for Indonesian Education Ambassador - National <i>Leaders.id</i>	<i>March 2024</i>
Gold Medal in the Indonesian Independent Science Competition in Physics - National <i>Cv Divya Cahaya Prestasi</i>	<i>August 2023</i>
Finalist Biomedical Engineering Smart Exhibition - International <i>Biomedical Engineering Department ITS</i>	<i>October 2022</i>
Top 10 Finalists for Matric's National Essay Week - Nasional <i>Himpunan Mahasiswa Matematika UNDIKSHA</i>	<i>November 2021</i>
Gold Medal in Indonesian Science Competition in Mathematics - Nasional <i>POSI</i>	<i>February 2021</i>

ORGANIZATION/COMMITTEE

Himpunan Mahasiswa Teknik Fisika (HMTF) <i>General Secretary</i>	<i>September 2023 – February 2024</i>
Biomedical Instrumentation Laboratory <i>Treasurer</i>	<i>July 2023 – January 2024</i>
Forum Komunikasi Mahasiswa Teknik Fisika (FKMTF) <i>Research and Technology Innovation Division</i>	<i>May 2022 – July 2023</i>
Instrumentation Systems Laboratory <i>Secretary</i>	<i>June 2022 – July 2023</i>
Biomedical Signal Processing Instrumentation Laboratory <i>Instrumentation Division</i>	<i>July 2022 – June 2023</i>
Komunitas Bahagia Bareng <i>Project Division</i>	<i>March – December 2021</i>
Search SMEs <i>Club Study Marketing</i>	<i>March – December 2021</i>

COURSES/TRAINING

English Course <i>English First</i>	<i>Present</i>
Risk Management <i>Latih</i>	<i>September, 2024</i>
Calibration Management <i>SRZConsulting</i>	<i>September, 2024</i>
SCADA Automation <i>Kelas Engineer</i>	<i>September, 2024</i>
Programmable Logic Controller (PLC) <i>CITA ITB</i>	<i>August, 2024</i>
PLC Automation Application in Industry <i>Anak Teknik Indonesia</i>	<i>July, 2024</i>
Create a Lasting First Impression <i>Persona Public Speaking</i>	<i>February, 2022</i>

SKILL

Technical capabilities: Autocad, Adobe, C language, Corel Draw, data analysis, HubSpot, microsensor calibration, PLC programming, project management, Reliability Centered Maintenance.

Non-technical abilities: Adaptive, collaborative, leadership, problem solving, public speaking.

Language: Indonesia (native), English (Intermediated)

Certifications: 513 score for TOEFL ITP