NABIL AL-FATIH ANIBBRAS NUGROHO

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Sleman, Yogyakarta

Highly motivated Electrical Engineering Technology freshgraduate (GPA 3.59/4.00) from Universitas Gadjah Mada with strong technical experience in electrical transmission systems, hydroelectric power operations, and MEP installations. Proficient in DigSILENT PowerFactory, ETAP, AutoCAD, SolidWorks, and Microsoft Office. A critical thinker and adaptive team player passionate about engineering innovation and continuous improvement.

Work Experiences

PT PLN Indonesia Power Mrica PGU - **Susukan, Delik, Tuntang District, Semarang Regency, Central Java 50773, Indonesia.** Jun 2023 - Jul 2023

Internship

Contributed to the Electrical Engineering division at PLTA Jelok Sub-Unit, specializing in hydroelectric power generation. Monitored and analyzed electrical parameters to support system reliability and efficiency. Assisted in troubleshooting and maintenance activities related to power distribution and protection systems. Gained practical experience in optimizing power plant operations, enhancing technical skills in electrical generation, transmission, and distribution processes.

- Monitored and analyzed hydroelectric power plant electrical parameters.
- Supported troubleshooting of power system issues and maintenance, improving energy efficiency by 10%.
- Participated in generator overhaul and safety procedures implementation.

PT Waskita Karya (Persero) Tbk - **Construction of the GIK (Gelanggang Inovasi dan Kreativitas) at Universitas Gadjah Mada, Jl. Persatuan, Sendowo, Sinduadi, Depok District, Sleman Regency, Special Region of Yogyakarta, Indonesia.** Aug 2023 - Present

Internship

Contributed to the MEP division for the Gelanggang Inovasi dan Kreativitas (GIK) project at Universitas Gadjah Mada. Engaged in various technical activities including electrical system installations, lighting, HVAC (Heating, Ventilation, and Air Conditioning), and fire protection systems. Developed skills in interpreting and analyzing technical drawings, supervising equipment installations, and ensuring compliance with safety regulations and energy efficiency standards. Collaborated with engineers and field technicians to support the successful implementation of MEP systems in a large-scale construction environment.

- Assisted in the installation of electrical, HVAC, lighting, and fire protection systems for the GIK project at Universitas Gadjah Mada.
- Analyzed technical drawings and supervised on-site MEP equipment installation to ensure compliance with safety and energy efficiency standards.
- Optimized load distribution planning for 6 buildings in the GIK project, resulting in a 12% improvement in electrical system efficiency.
- Supervised installation of MEP systems while ensuring safety compliance.
- Collaborated with multidisciplinary teams, including engineers and field technicians, in large-scale construction project implementation.

PT PLN (Persero) Unit Pelaksana Transmisi - **Jl. Jend. Sudirman Jl. Komp. Pln No.KM.23 Gedung C, Babadan, Gedanganak, Ungaran Timur, Semarang Regency, Central Java 12210** Sep 2024 - Jan 2025

Internship

Contributed to internship at PT PLN (Persero) Unit Pelaksana Transmisi, working in the Engineering division. During this internship, I am involved in various technical aspects related to the electrical transmission system, including network performance analysis, load calculations, and power system protection evaluation. I also gain hands-on experience in using engineering software for transmission system simulation and modeling to ensure operational reliability and efficiency. Additionally, I have the opportunity to understand the implementation of standards and regulations in Indonesia's electrical transmission operations.

- Conducted load flow analysis and network performance studies using DigSILENT PowerFactory.
- Studied and supported the implementation of Line Current Differential Relay protection systems for Bay Jelok-Ungaran.
- Participated in maintenance and operational activities at the 150 kV Ungaran Substation to enhance transmission reliability.

Education Level

Universitas Gadjah Mada - **Bulaksumur, Depok, Sleman Regency, Special Region of Yogyakarta 55281** Aug 2021 - Aug 2025 (Expected)

Diploma in Electrical Engineering Technology, 3.59/4.00

- Member of Electrical Engineering Student Association (HMTE)
- Key Projects : Renewable Energy Project (2024), Conveyor System Development (2023), Energy Audit Project (2022)
- Final Project : Analysis Of Replacing Distance Relay With Line Current Differential Relay At GI Ungaran - GI Jelok Bay 1 PT PLN UPT Semarang

Organisational Experience

Himpunan Mahasiswa Teknik Elektro - **Yogyakarta** Jan 2022 - Jan 2024

Head Of Media Creative

HMTE (Himpunan Mahasiswa Teknik Elektro) is a student organization for the Electrical Engineering Technology program at the Vocational School, serving as a platform for students to develop organizational soft skills and teamwork abilities. This association facilitates various activities that enhance leadership, collaboration, and professional competencies in the field of electrical engineering.

- Led a creative team of 7 staff for event documentation and branding.
- Designed two annual Grand Concepts for organizational events.
- Enhanced HMTE's social media presence significantly.

Mapadegama BSO - **Yogyakarta** Apr 2023 - May 2024

Head Of Mapadegama

Mapadegama (Mahasiswa Pegiat Alam Bebas Diploma Elektro Gadjah Mada) is an organization under HMTE that focuses on survival skills and mountain climbing. It serves as a platform for students to engage in outdoor activities, providing an opportunity to unwind and take a break from academic routines while fostering teamwork, resilience, and a spirit of adventure.

- Organized and led mountain hiking activities, including Merbabu Expedition.
- Managed logistics and safety procedures for outdoor survival events.

Komisi Pemilihan Umum Mahasiswa 2022 - **Yogyakarta** Aug 2022 - Dec 2022

Head Of Media Creative

The Komisi Pemilihan Umum Mahasiswa Universitas Gadjah Mada (KPUM UGM) is an organization responsible for conducting the Student General Election (Pemilwa) at Universitas Gadjah Mada (UGM). Pemilwa is a democratic process held to elect the President of the Student Executive Board (BEM KM UGM) and members of the Student Representative Council (DPM-UP).

- Created visual designs for the UGM Student Election 2022.
- Led a media team to enhance campaign reach and engagement.

Blora Education Fair 2023 - **Blora, Central Java** Aug 2022 - Jan 2023

Head Of Media Sub Division, Media and Creative Division

Blora Education Fair is an educational exhibition held in Blora Regency, serving as a platform for sharing information and promoting various educational institutions to students and the general public. The event features universities, training centers, and other educational organizations introducing academic programs, admission pathways, scholarships, and career prospects to high school students in Blora and surrounding areas.

- Led a creative team of 7 members in managing event branding, visual content, and documentation.
- Developed and executed two annual grand concepts to enhance event identity and audience engagement.
- Significantly improved the event's digital presence through strategic social media planning and visual storytelling.

Skills, Achievements & Other Experience

- **Technical Skills**: DigSILENT PowerFactory (Load flow, protection coordination) | ETAP (System modeling, harmonic studies) | AutoCAD (Technical drawings) | SolidWorks (3D modeling and stress analysis) | Proteus & Eagle (PCB design and microcontroller simulation) | SketchUp (3D visualization) | Microsoft Office.
- **Soft Skills**: Critical Thinking | Communication | Leadership | Team Collaboration | Problem Solving | Adaptability
- **Energy Audit Project** (2022): Conducted building energy audits for efficiency improvement.
- **Conveyor Development Project for Practical Equipment** (2023): Designed and built a conveyor system for lab experiments, improving practical workflow efficiency.
- **Renewable Energy Project** (2024): Contributed to sustainable energy initiatives as part of university projects.
- **Instalation Building in Asa Space Coffee Shop Salatiga** (2024): Designed and installed electrical systems for a commercial coffee shop, optimizing total load distribution under a strict one-month deadline.
- **Wall Follower Robot** (2024): Designed and built an autonomous robot that navigates by following walls using ultrasonic/infrared sensors, Programmed control algorithms using Arduino to enable real-time obstacle detection and path correction, Modeled the robot structure using SolidWorks for optimal balance and movement, Integrated sensor data processing with motor control for smooth navigation and adaptive turning, Demonstrated skills in embedded systems, robotics, and sensor-based automation.