Danke **Hidayat**

COMPUTER ENGINEER · INTERNET OF THINGS BUILDER

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"Even if I have to fight you, I won't stop moving forward." — Maya Tendō

Summary

Currently pursuing a Bachelor's degree in Applied Computer Engineering at the Vocational School of IPB University with experience specializing in Cisco networking, the Internet of Things, embedded programming, and electronics. Super geek who loves Vim, Linux, and open source software and enjoys to customize all of the development environment Interested in devising a better problem-solving method for challenging tasks and learning new technologies and tools if the need arises.

Internship Experience

PT. Global Kreatif Inovasi
South Jakarta, Indonesia

DATA ANALYST
Dec. 2024 - Feb. 2025

- Organize, sort, and analyze data using Google Sheets in workspace.
- Ensure accuracy and consistency in datasets for reporting.
- Conduct testing for Android applications related to Enterprise Resource Management (ERM).
- Identify, document, and report software issues to improve functionality.

PT. Global Kreatif Inovasi
South Jakarta, Indonesia

SOFTWARE TESTER
Aug. 2024 - Dec. 2024

- Ensure visual consistency across mobile devices screen resolutions (responsive design testing).
- Validate the application user interface against design specification (e.g., Figma).
- Simulate real user behavior to evaluate the intuitiveness and flow of user journeys.
- Collaborate with UI/UX designers to provide feedback based on testing observations and user perspective.
- Provide screenshots, screen recording, and annotated issues to help teams understand usability concerns.
- Document UI/UX-related test scenarios and edge cases not always covered in functional specs.
- Learn and explore Odoo software resource management and accounting modules for reference to integrate in KompakApps functionality

Wyndham Hotel Casablanca
South Jakarta, Indonesia

ASSISTANT IT OFFICER
Aug. 2020 - Jan. 2021

- Managed daily data backups to ensure data integrity and availability.
- Ensured all endpoints received regular security updates to protect against vulnerabilities.
- Programmed RFID keycards for staff and hotel guests, ensuring secure access control.
- Troubleshooted and resolved computer and printer issues for staff.
- Assissted hotel guests with network problems, providing timely and effective solutions.
- Prepared conference rooms for bi-weekly meetings, ensuring all necessary equipment was set up and functioning.
- Set up Oracle POST systems for new installations and maintained existing systems.

Projects

Energy & Temperature Monitoring
South Jakarta, Indonesia

ELECTRONICS & EMBEDDED ENGINEER
Sep. 2024 - Aug. 2025

- Developed an IoT-based monitoring system integrating Mamdani fuzzy logic to analyze real-time electricity consumption and room temperature data. The system accurately identifies energy waste patterns in office environments, enabling optimized usage and supporting energy efficiency decisions. This project leverages rule-based fuzzy logic to process complex sensor data, helping organizations reduce energy waste and enhance conservation efforts amid rising electricity demands in Indonesia.
- Designed and developed the schematic for the electronic component and the software code.
- Designed the UI dashboard for the Blynk application interface.
- Conducted testing on both software and hardware issues to improve functionality.
- Utilized Google Sheets as a cloud-based database to store and manage sensor data for real-time monitoring.

IoT-based Automatic Trash Bin Sorter
Bekasi, Indonesia

ELECTRONICS & EMBEDDED ENGINEER
Feb. 2024 - Jun. 2024

- Developed an IoT-based automatic waste sorting bin equipped with smart sensors to classify organic, inorganic, and metal waste. The system provides real-time waste volume reports, making recycling more efficient while helping reduce environmental pollution.
- Designed and developed the schematic for the electronic component and the software code.
- Helped design the 3D model of the project using Autodesk Fusion
- Designed the UI dashboard for the Blynk application interface.
- Conducted testing on both software and hardware issues to improve functionality.

HydroleVI (Water Levelling Monitoring Control System)
Curug Cikoneng, Leuwiliang, Bogor

ELECTRONICS ENGINEER & WEB DEVELOPER
Aug. 2023 - Nov. 2023

- Developed a water level monitoring and control system using three-tier indicators: Safe, Warning, and Dangerous. When the water reaches the dangerous level, the system triggers a local siren to alert nearby residents. Real-time status can be monitored online via the Blynk app and offline.
- Helped assemble the electronic components based on the schematic.
- Built a Teams page website using the Laravel framework.

Licenses & Certifications

CERTIFICATION

2025	**LSP Hardware Installation Supervisor**, Occupational Certification: Hardware Installation Supervisor	*Bogor, Indonesia*
2025	**Railway Electrification in Indonesia Seminar**, 100 Years of Railway Electrification in Indonesia Seminar: Railway Electrification & Sustainable Mobility	*Online, Den Haag*
2023	**CCNA**, Cisco CyberOps Associate.	*Bogor, Indonesia*
2023	**CCNA**, Cisco Network Associate Security. ENSA, SRW, NS.	*Bogor, Indonesia*
2023	**CCNP**, Cisco Certified Network Professional	*Bogor, Indonesia*
2022	**Micro IT Webinar**, Webinar Series #14: Follow Your Passion: Creating Potential Business Based on Your Passion.	*Online, Bogor*
2021	**Micro IT Webinar**, Webinar Series #9: What Do's and Don'ts When Being an UI/UX Designer.	*Online, Bogor*
2020	**TOEIC**, Achieved a TOEIC score of 755. Listening section reached 400 out of 495, while for the reading section it reached 355 out of 495.	*Depok, West Java*

Honors & Awards

DOMESTIC

2019	**11th Place**, Participant of LKS IT Networking Systems Administration	*Depok, West Java, Indonesia*

Writings & Journals

Implementation of Mamdani Fuzzy Logic for Real-Time Monitoring of Electrical Energy and Room Temperature Based on IoT
IPB

AUTHOR
Sep. 2024 - Aug. 2025

- Developed an IoT-based energy monitoring system using Mamdani fuzzy logic to analyze electricity and temperature data in real-time, enabling accurate detection of energy waste and supporting efficiency improvements in office environments.

Designing a Website-Based Inventory Information System at'NeoSkin'Cosmetics Store Using User-Centered Design
JASTH

CO-AUTHOR
Jun. 2025 - Jun. 2025

- Designed and developed a web-based Inventory Information System for NeoSkin, a cosmetics store, using a User-Centered Design (UCD) approach to prioritize user needs and experience. Implemented Black Box Testing to ensure the system functioned correctly and met business requirements for effective inventory management.

Designing User Interface on "HewanKu" Application Using User Centered Design Method
JASTH

CO-AUTHOR
Jun. 2025 - Jun. 2025

- Designed the user interface for the HewanKu mobile app using the User-Centered Design (UCD) method to enhance user experience in livestock buying and selling transactions. Conducted user needs analysis, prototyping, and iterative testing based on feedback. Ensured functionality and reliability through Black Box Testing, resulting in an intuitive, user-friendly interface that improved user trust and satisfaction.

Implementation of User Centered Design Method on CarbonArea Website User Experience   *JASTH*

Co-author   *Jun. 2025 - Jun. 2025*

- Evaluated the use of the User-Centered Design (UCD) approach in designing the UI/UX of the CarbonArea website, which presents information on CO_2 impact on food security. Conducted user interviews, literature review, and iterative UCD stages to identify needs and design solutions. Integrated interactive features such as maps and real-time graphs based on feedback. The UCD approach effectively improved user satisfaction, functionality, and overall website appeal.

Implementing Fuzzy Logic to Forecast Electricity Usage Costs   *JASTH*

Co-author   *Mar. 2025 - Mar. 2025*

- Conducted research on predicting household electricity usage costs using fuzzy logic with the Mamdani method. Focused on evaluating power efficiency based on variables such as house size, electrical appliances, power capacity, income, and usage. Implemented the system using MATLAB, successfully estimating electricity costs with accurate results for a case study in Leuwimekar Village, Bogor City.

Social Media as Social Control   *Kompasiana Post*

Writer   *Aug. 2021 - Aug. 2021*

- A short article written as a requirement for the campus orientation program for new students.

Education

Vocational School of IPB University   *Bogor, West Java, Indonesia*

Bachelor of Applied Technology in Computer Engineering   *Aug. 2021 - Sept. 2025*

- Currently pursuing a Bachelor's in Applied Computer Engineering at Vocational School of IPB University, with a current GPA of 3.57/4.00.
- Responsible for managing and coordinating the "Basic Computer Networking" and "Computational Mathematics" courses.

SMKN 2   *Depok, West Java, Indonesia*

Computer and Network Engineering   *Aug. 2018 - Aug. 2021*

- Studied the fundamentals of networking using Cisco and MikroTik, as well as professional ethics in the workplace.
- Served as class president in 11th grade and worked as a student library assistant, demonstrating leadership and responsibility in both academic and organizational settings.

Extracurricular Activity

Nikukabu (Japanese Club)   *Depok, West Java, Indonesia*

Member   *Aug. 2019 - Jun. 2021*

- Learned to read and write Hiragana and Katakana.
- Practiced basic Japanese conversation skills & improved listening and speaking through anime, songs, and language games.
- Explored traditional and modern Japanese culture, including customs, etiquette, and social norms.
- Learned about Japanese festivals (e.g., Tanabata, Obon, Hinamatsuri).
- Studied Japan's cultural heritage, including tea ceremony, calligraphy, and traditional arts.

Robotic Club   *Depok, West Java, Indonesia*

Member   *Aug. 2019 - Jan. 2020*

- Learned to create a schematic layout using Eagle software and basic PCB print.
- Learned basic electronic components (e.g., transistor, capacitor, diode, sensors, etc.
- Built a line follower robot together with a team.

FreeCodeCamp   *South Jakarta, Indonesia*

Member   *Jan. 2017 - Dec. 2019*

- Completed structured tutorials in:
  - HTML, CSS, and JavaScript.
  - Responsive Web design.
  - Front-end libraries (e.g., React, jQuery, Bootstrap
  - Version control using Git, Github, and Gitlab
- Built a real-world projects, such as:
  - A responsive e-Commerce mock-up website for a food market.
  - Start page site for a quick access links.
  - Personal portofolio websites.
- Understanding of modern web concepts:
  - Mobile-first responsive design.
  - Client-side rendering.
- Earned FreeCodeCamp certifications.
- Learned front-end frameworks:
  - Basics fo React (components & props).
  - Used Bootstrap and jQuery for styling and interactivity.