

HABIB MUKHLIS TRIATMOJO

UNDERGRADUATE COMPUTER ENGINEERING STUDENT AT DIPONEGORO UNIVERSITY || MECHATRONIC ENGINEER

Semarang, Central Java | habibtrmojo@gmail.com | www.linkedin.com/in/habib-mukhlis-triatmojo

SUMMARY

Software Engineer with a strong foundation in full-stack development, programming, and system integration. Experienced in building web applications, IoT systems, and real-time monitoring solutions, with additional expertise in artificial intelligence. Proficient in both front-end and back-end development, as well as microcontroller programming, enabling seamless integration between software and hardware systems. Able to develop scalable, efficient, and user-friendly applications, while maintaining clean and maintainable code. A collaborative team player who adapts quickly, performs well under pressure, and is committed to continuous learning and delivering high-quality solutions.

EXPERIENCE

Vice Head || PMO HIMASKOM

Apr 2026 - Now

- Assisted in leading the Organizational Management Development Unit, managing 5 core members and 7 interns to enhance organizational performance.
- Coordinated organizational initiatives across 7 divisions and units, improving cross-team collaboration and workflow efficiency.
- Identified and resolved operational issues across divisions, increasing coordination effectiveness by ~40%.
- Strengthened communication flow between units, ensuring alignment with organizational goals and timely execution of programs.

Head of Competition Coordinator || THE ACE 2026

Jan 2026 - Now

- Coordinated the competition division of The Ace, overseeing the planning and execution of FTL, CTF, and UI/UX competition programs.
- Managed the overall workflow of the division, including task delegation, team coordination, and timeline monitoring to ensure each competition ran effectively.
- Collaborated with internal committees and related stakeholders to organize technical and non-technical aspects of multiple competition events.
- Supervised the preparation of competition materials, participant coordination, and event mechanisms for FTL, CTF, and UI/UX categories.
- Supported problem-solving and decision-making processes during the preparation and execution stages to maintain smooth event operations.

Founder & Fullstack Developer || Insyaallahberkah.id

Mar 2026 - Now

- Founded InsyaallahBerkah.id, a technology-based initiative delivering web development, IoT, and AI solutions, successfully securing 4 projects within the first month of operation.
- Led end-to-end project execution, managing client requirements, planning, and technical delivery while improving team workflow efficiency by ~70% to meet project timelines.
- Developed and deployed 2 fullstack web applications, handling both frontend and backend to deliver responsive and functional systems.
- Built customized technology solutions, including web platforms and IoT-based systems, ensuring high-quality delivery and client satisfaction.

IoT Engineer || CV. Karsa Cipta Teknologi Indonesia**Mar 2023 - Apr 2026**

- Designed and developed IoT-based electrical automation systems, delivering 17 projects with consistent output of 2–3 projects per month.
- Engineered and integrated sensors, microcontrollers, and communication modules for real-time system monitoring and control.
- Led team coordination and technical workflows, increasing team efficiency by ~20% and improving project delivery timelines.
- Ensured high-quality implementation through clean code practices and optimized PCB design, enhancing system reliability and maintainability.

Chief Organizer || HIMASKOM SESSION 2025**Jan 2026 - Feb 2026**

- Led the planning and execution of Himpunan Session, managing a team of ~30 committee members to deliver a successful appreciation and farewell event.
- Coordinated end-to-end event operations, including concept development, task delegation, and timeline management to ensure smooth execution.
- Managed event budgeting and logistics, ensuring resources were allocated effectively and aligned with event requirements.
- Oversaw collaboration across committees to prepare rundown, engagement activities, and appreciation sessions, ensuring high-quality event delivery.

Junior Staff || PMO HIMASKOM**Jun 2025 - Feb 2026**

- Supervised and supported the Research and Technology Division, monitoring program execution and ensuring alignment with organizational goals.
- Assisted in coordinating activities and internal initiatives, collaborating with division members to maintain smooth operations and communication.
- Provided recommendations and problem-solving support to address operational challenges within the division.
- Contributed to improving division effectiveness by ~40% through better coordination, issue resolution, and workflow support.

Vice Chair || TEMU ANGKATAN TEKNIK KOMPUTER 2025**Sep 2025 - Okt 2025**

- Served as Vice Chief Organizer, leading coordination of ~50 committee members and delivering a large-scale event attended by 200+ participants.
- Directed event operations from planning to execution, ensuring alignment across teams, timelines, and responsibilities.
- Oversaw logistics, field operations, and consumption management, ensuring efficient resource allocation and smooth event flow.
- Resolved coordination challenges in real-time, maintaining effective communication and ensuring successful program delivery.

Internal Field Coordinator || KM INTERNAL TEKNIK KOMPUTER 2025**Apr 2025 - Mei 2025**

- Served as Field Coordinator Leader for an internal Computer Engineering event, overseeing the implementation of games and outbound activities for participants.
- Coordinated field operations and ensured all activities ran according to the planned rundown, timeline, and safety procedures.
- Managed the field coordination team in handling participant flow, activity transitions, and on-site event execution.
- Worked closely with the organizing committee to prepare activity areas, equipment, and operational needs for games and outbound sessions.
- Resolved on-site issues quickly and maintained smooth communication among committees to ensure the event ran effectively.

Sponsorship Staff || EFEST BEM FT 2025**Aug 2025 - Sep 2025**

- Assisted in seeking and communicating with potential sponsors to support the successful implementation of the event.
- Prepared sponsorship proposals and helped maintain professional communication with external partners and collaborators.
- Coordinated with internal committees to ensure sponsorship needs, partnership deliverables, and event support were managed properly.

Staff Event || DEF BEM FT 2025**Jul 2025 - Sep 2025**

- Assisted in planning and executing event activities to ensure both the competition and seminar ran smoothly and according to schedule.
- Coordinated with committee members in preparing the event rundown, participant needs, and operational requirements.
- Supported the implementation of technical and non-technical event activities during the preparation and execution stages.
- Helped manage participant flow, event coordination, and on-site operations to maintain an organized and effective event environment.

Staff Programmer || Undip Robotic Development Center**Nov 2024 - Okt 2025**

- Served as Programmer Staff at UNDIP Robotic Development Center, contributing to robotics development through software and embedded systems learning.
- Studied and applied ROS 2 concepts to support communication, control, and integration in robotic systems.
- Worked with STM32 microcontrollers for embedded system development and basic hardware-software interfacing.

Project Manager Website || WEBSITE ANGKATAN TEKNIK KOMPUTER 2024 Jan 2025 - Jan 2025

- Led the development of the Computer Engineering 2024 batch website by coordinating the planning, progress, and execution of the project.
- Managed team responsibilities, project timelines, and task distribution to ensure efficient collaboration and timely completion.
- Coordinated with team members in the design and development process to create a website that met the needs of the batch community.

Internship || PT TELKOM AKSES**Jun 2023 - Nov 2023**

- Completed an internship at PT Telkom Akses, supporting administrative and field operations related to network infrastructure maintenance at STO Tugu Semarang.
- Performed data entry tasks to record, update, and organize operational and maintenance data accurately.
- Assisted field activities involving inspection and maintenance of ODP and ODC to support network reliability and service quality.
- Supported technicians in monitoring infrastructure conditions and identifying issues during on-site maintenance activities.
- Contributed to ensuring proper documentation and coordination between field observations and administrative records.
- Gained practical understanding of telecommunication network infrastructure, maintenance procedures, and field operation workflows.

PROJECTS

Website Storage Management

May 2026 - June 2026

Diponegoro University

- Led the development of a web-based storage management system by managing project planning as Project Manager for a four-person team (Frontend, UI/UX, and two Backend Developers).
- Applied Scrum methodology to manage the project, including sprint planning, backlog management, and daily stand-ups, while maintaining project documentation such as user stories and progress reports.

BeritaKita Website

June 2026 - June 2026

Diponegoro University

- Developed BeritaKita, a full-stack news website inspired by CNN's design, using Next.js and Tailwind CSS to build a responsive and modern interface for both public and admin-facing platforms.
- Built a public-facing site enabling users to browse, search, and comment on news articles, alongside an admin panel with full CRUD functionality for managing news content.
- Designed and integrated a PostgreSQL database hosted on Neon to handle data storage, ensuring efficient and scalable management of articles and user interactions.

18News Website

May 2026 - May 2026

Diponegoro University

- Led the development of 18News, a full-stack news website, by managing project planning as Project Manager and overseeing both public and admin-facing platforms.
- Applied Scrum methodology to manage the project, including sprint planning, backlog management, and daily stand-ups, while maintaining project documentation such as user stories and progress reports.
- Coordinated team workflows, delegated tasks, and monitored project progress to ensure timely and effective completion of the public news platform and admin content management system.

Website Kopma Unnes

Mar 2026 - Apr 2026

Insyaallahberkah.id

- Led the development of the Kopma UNNES website by managing project planning
- Acted as Project Manager while contributing to frontend development, using Next.js to build and enhance a responsive and user-friendly web interface.
- Coordinated team workflows, delegated tasks, and monitored project progress to ensure timely and effective completion.

Website Company Profile UKM RnB Univeristas Diponegoro

Jan 2026 - Jan 2026

Insyaallahberkah.id

- Served as Project Manager and Front-End Developer in the development of the official company profile website for UKM RnB Universitas Diponegoro.
- Led a multidisciplinary team by coordinating project planning, defining milestones, and ensuring effective communication throughout the development process.
- Developed the front-end system using React to create a responsive, dynamic, and user-friendly interface.

Computer engineering class of 2024 identity website

Jan 2025 - Jan 2025

Diponegoro University

- Led a cross-functional team consisting of the Programming, UI/UX, Data, and PR teams to develop the class identity website.
- Acted as both the project leader and a developer, utilizing Laravel to build and optimize the system.
- Coordinated team efforts, assigned tasks, and ensured timely project completion.

AI-Powered Smart Cane for the Visually Impaired

Dec 2024 - Jan 2025

Projectkita ID

- Trained an AI model using YOLO for real-time object detection and integrated it with a Raspberry Pi.
- Developed a system that enables the smart cane to identify obstacles and assist visually impaired users.
- Implemented GPS reading to provide location-based guidance and navigation support.
- Optimized AI processing on the Raspberry Pi for efficient and accurate detection in real-world environments.

IoT Equipment Store Inventory Management Website

Nov 2024 - Nov 2024

Diponegoro University

- Developed the website using PHP, HTML, JavaScript, and Tailwind CSS for a modern and responsive design.
- Integrated the system with phpMyAdmin for efficient database management and inventory tracking.
- Implemented dynamic features to manage stock, update inventory, and streamline store operations.
- Optimized user interface and backend functionality to ensure smooth performance and ease of use.

Seed Monitoring

Oct 2024 - Oct 2024

Projectkita ID

- Developed a web-based application to monitor seed growth and environmental conditions.
- Implemented JSON data transmission to a Raspberry Pi for real-time data processing.
- Designed the frontend and backend using web technologies to ensure a seamless user experience.
- Coordinated with the firmware team to define and standardize JSON data structures for seamless communication and efficient data exchange between systems.

Low Voltage Detection

Jul 2024 - Jul 2024

Projectkita ID

- Programmed an Arduino to read voltage sensors for real-time monitoring.
- Implemented a detection system to identify sudden voltage drops.
- Developed an automated alert system that sends voltage data and warnings to Telegram via a bot.
- Optimized data transmission for fast and reliable notifications.
- Collaborated with the electrical team to optimize circuit design, sensor integration, and power management

Air Filtration Device

Diponegoro University

- Programmed an Arduino to read multiple sensors for air quality monitoring.
- Implemented real-time data transmission to the Blynk application for remote monitoring.
- Developed a system to track and analyze air filtration performance.
- Optimized sensor integration to ensure accurate and reliable data collection.
- Collaborated with electrical team and mechanical team ensuring overall project reliability and performance.

May 2024 - May 2024

Automatic Fish Feeder Arduino

Independent Project

- Designed and developed the electrical system, including PCB layout and wiring.
- Created the mechanical design using CAD software Autodesk Inventor to ensure precise component fitting.
- Programmed the Arduino to control the feeding mechanism and manage scheduled operations.
- Developed an Android application for user control, enabling Bluetooth communication with the Arduino.
- Integrated hardware and software to ensure seamless automation and user interaction.

Jul 2024 - Okt 2024

SKILLS

Firmware Development	Cross-functional Teamwork	Problem Solving
Fullstack Developer	Task Prioritization	Analytical Thinking
mbdedded System	Project Management	Communication
Electrical Design	Time Management	
Technical Documentation	Team Leadership	

Undergraduate Computer Engineering Students

Diponegoro University

Mechatronic Engineering

SMKN 7 Semarang

Aug 2024 - Now

Aug 2021 - Jun 2024

ADDITIONAL INFORMATION

- Languages:** English, Indonesian.
- Certifications:** PNEUMATIC SYSTEM MAINTENANCE TECHNICIAN CERTIFICATE, Viera TOEIC Test (Score : 895)
- Awards/Activities:** Best Essay of essay competition Pertamina Space Up 5.0 (2023), 1st Place Winner, MOP Competition, Faculty of Mathematics, Universitas Tanjungpura, Staff of the Month PMO 2025, Staff of the Year PMO 2025

