

HANIF ARDIYANTA NUGRAHA

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An Electronics and Instrumentation student (UGM) who combines a strong software development foundation (Python, Java, JS) with demonstrated leadership. Proven experience in managing technical teams, delivering software prototypes, and initiating high-impact programs, including a collaboration with the Apple Developer Academy. Eager to contribute my proactive problem-solving and product-oriented mindset to a fast-paced software programmer internship.

Education Level

Universitas Gadjah Mada - Yogyakarta <i>Bachelor of Electronics and Instrumentation, 3.43/4.00</i>	Jul 2023 - Aug 2027 (Expected)
Universitas Sebelas Maret - Surakarta <i>Bachelor of Informatics and Computer Technology Education (2 Semesters Completed), 3.70/4.00</i>	Jul 2022 - Jun 2023
<ul style="list-style-type: none">Successfully secured admission to Universitas Gadjah Mada through the university's independent entrance examination (UM UGM CBT) to pursue a program more aligned with hardware-software integration.	

Organisational Experience

SKJ (Computer Systems & Networks) & ELINS Laboratories, UGM - Yogyakarta <i>Head of Software Programmer, G-Connect Project</i>	Jul 2025 - Sep 2025
<ul style="list-style-type: none">Led the software architecture design for G-Connect, an end-to-end IoT monitoring system, transforming it into a modular, solar-powered environmental monitoring template.Developed a containerized Python & Flask application (using Docker) to act as a central gateway, processing incoming data and streaming real-time updates to a local dashboard via Server-Sent Events (SSE).Engineered a modular firmware (in C/C++) for the MSP430 microcontroller, enabling a customizable data ingestion pipeline that transmits sensor data via HTTP for specific use cases like a planned weather observation station in Imogiri.Pioneered the system's full-stack deployment for real-world application, covering everything from low-level embedded programming to local data visualization.	
Elins Research Club UGM - Yogyakarta <i>Member of Website Development</i>	Mar 2024 - Present
<ul style="list-style-type: none">Developed and currently maintain the official club website (erc.elins.id), utilizing WordPress and Elementor to establish a professional online presence and information hub for members and the public.Designs and leads JavaScript training sessions for new members to accelerate their technical skill development and integration into the development team.Collaborated within a development team to translate client needs into functional web solutions, taking primary responsibility for implementing specific features and ensuring code quality.	
Himpunan Mahasiswa Elektronika dan Instrumentasi (HMEI) - Yogyakarta <i>Head of Division Academic and Advocacy</i>	Feb 2025 - Present
<ul style="list-style-type: none">Leads and coordinates a division of 11 members in executing strategic programs, highlighted by the successful initiation of an alumni-funded scholarship (EFO)Initiated and directed high-impact career development programs, including a highly successful socialization event with the Apple Developer Academy, to connect students with top-tier industry opportunities.Improved academic outcomes by organizing peer tutorial classes and creating a centralized digital bank for exam questions and course materials.	

Technical Skills & Projects

<ul style="list-style-type: none">Languages: Python, Java, JavaScript, C++, SQL, HTML/CSSFrameworks & Libraries: Flask, React.js, Node.js, NumPy, Matplotlib, ControlDatabases: MySQL, FirebaseTools & Technologies: Docker, Git, Verilog, Raspberry Pi, MQTT, ESP32Concepts & Methodologies: Object-Oriented Programming (OOP), Data Structures & Algorithms, Embedded Systems, Control Systems (PID), Big Data Concepts, UI/UX ConceptsPersonal Website Portofolio: HTML, CSS, JavaScript, GitHub PagesDesktop Cashier Application: Java, Java Swing (GUI)Activities: UGM Varsity Basketball Athlete (Competed in LIMA Division 1 & POMDA DIY 2024)	
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