

Bagus Eka Bagaskara

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Information Technology student passionate about connecting hardware and software. Skilled in C++ for embedded systems (Arduino, ESP32) and modern front-end development with React. Eager to contribute to innovative IoT projects in an entry-level role by applying hands-on development skills.

SKILLS







Hard Skills: C++, Python, JavaScript, SQL, HTML/CSS, Microcontroller Programming (Arduino/ESP32), Sensor Integration, Motor Control, MQTT, React, Responsive Design, Git, GitHub, Docker, Wokwi, Blender.

Soft Skills: Problem Solving, Effective Communication, Initiative, Time Management, Adaptability, Openness to Feedback.

WORK EXPERIENCE

IoT Intern Badan Riset dan Inovasi Nasional (BRIN) <ul style="list-style-type: none">Designed a GNSS-based IoT monitoring system using ESP32, Walksnail GPS, and DHT11 sensor.Parsed NMEA data, structured JSON, and transmitted securely via MQTT at 15-sec intervals.Built a custom 3D-printed enclosure for field deployment and testing.Integrated hardware and firmware using Arduino IDE, MQTTX, and Tinkercad.	Apr 2025 - May 2025 Tangerang Selatan, Indonesia
Operations Intern (PKL) PT YUJU Indonesia <ul style="list-style-type: none">Streamlined AC component prep and inventory for 100+ installations and maintenance tasks.Assisted technicians and reduced prep errors by 20%, improving efficiency.Managed inventory records to minimize shortages and delays.	Jun 2022 - Aug 2022 Bekasi, West Java



PROJECTS

Dockerized Currency Converter  <ul style="list-style-type: none">Built & deployed containerized web app with Docker, cutting environment setup time by 90%.Developed Flask REST API for real-time conversion of 10+ global currencies.	Jul 2025 - Jul 2025
Personal Portfolio Website  <ul style="list-style-type: none">Designed & deployed a personal portfolio (Next.js, Vercel) to showcase projects and skills online.Features responsive layout, live demos & GitHub integration.	Jun 2025 - Jul 2025
Autonomous Robotic Car  <ul style="list-style-type: none">Designed autonomous vehicle with 95% obstacle avoidance success using servo-mounted ultrasonic scanner.Added dual-sensor hazard detection (flame, temp) with 85% detection rate, triggering auto fan response.	Feb 2025 - Feb 2025
Joystick-Controlled Robotics Arms  <ul style="list-style-type: none">Built 4-DOF robotic arm (Arduino, C++, Servo Motors, Joystick) for precise object manipulation.Implemented real-time joystick control logic.	Feb 2025 - Feb 2025
Smart Automatic Door System  <ul style="list-style-type: none">Designed & simulated smart door using Arduino, Wokwi, Ultrasonic, LDR, and DHT11 sensors.Automated open/close based on real-time distance, light, and temp input.	Feb 2025 - Feb 2025
Urban Night City (3D Animation)  <ul style="list-style-type: none">Created low-poly 3D city scene with Blender: modeling, rigging, lighting & animation.Rendered dynamic environment with particle effects & camera motion.	Nov 2024 - Jan 2025

EDUCATION

Bachelor of Science in Computing President University Honors: Jababeka Scholarship Recipient (75% Coverage) Concentration: Internet of Things (IoT)	Sep 2023 - Present GPA: 3.72/4.00
Vocational High School Diploma in Computer and Network Engineering (TKJ) SMK Armaniyah – Bekasi, Indonesia <ul style="list-style-type: none">Specialized in computer networking, server administration, and hardware troubleshooting.	May 2020 - May 2023 GPA: 83,91/100

CERTIFICATIONS

Certificate of Internship – Research Center of Electronics BRIN (Credential ID: B-13194/III.6.2/TK.14/6/2025)  by Badan Riset dan Inovasi Nasional (BRIN)	Jun 2025
Certificate of Achievement – Urban Night City  by President University, FINPROTION 2025	Feb 2025

LANGUAGES

Bahasa Indonesia (Native proficiency) • **English** (Limited working proficiency)