

TIYO HARYO SUBAKTIONO

Cimahi, ID | +62 89510826090 | tiyoharyos@gmail.com

EDUCATION

INDONESIA COMPUTER UNIVERSITY

Bandung, ID

Bachelor of Informatics Engineering

GPA: 3,21

Relevant Coursework: Entrepreneurship; Human Computer Interaction; Animation and Multimedia; Software Project Management; Interpersonal and Communication; Algorithms & Data Structures; DBMS.

EXPERIENCES

DISKOMINFO BANDUNG

Bandung, ID

Programmer Assistant

For 3 Months

My responsibilities included developed an e-gratification application based on a website platform.

PROJECTS

FINAL THESIS: Prototype of Drip Irrigation system for Chili Plants Using MQTT and HTTP Technologies

- Led the development and implementation of an automated drip irrigation system for chili plants, utilizing MQTT and HTTP technologies to monitor and control environmental conditions.
- Designed and built the IoT system using Raspberry Pi 3, DHT 11 sensor, moisture soil sensor, and Arduino Uno, enabling real-time data collection and automated irrigation based on soil moisture levels and air humidity.
- Developed a web application to monitor and control the system, providing users with real-time data on soil moisture, air humidity, and irrigation status, as well as allowing remote control of the irrigation process.
- Analyzed the performance of MQTT and HTTP protocols, comparing their data transmission speeds and reliability in the context of IoT applications for precision agriculture.
- Achievements: Successfully implemented a fully functional prototype that demonstrated significant improvements in water usage efficiency and plant health monitoring.
- Utilized: Raspberry Pi 3, DHT 11 sensor, Moisture Soil Sensor, Arduino Uno, Python, MQTT, HTTP, HTML, CSS, JavaScript, Flask, Bootstrap, Microsoft Word, Microsoft Excel, Microsoft PowerPoint.

LAPENKOP INDRAMAYU: Cooperative Training Website

- Developed a cooperative training website for Lapenkop Indramayu, aimed at facilitating online training and managing training materials for cooperative members.
- Designed and implemented the backend system using PHP and MySQL, ensuring efficient and secure data management.
- Built a responsive user interface with Bootstrap, creating an intuitive user experience accessible from various devices.
- Integrated key features, including participant registration, course management, access to training materials, and an online evaluation system.
- Utilized: PHP, MySQL, Bootstrap, HTML, CSS, JavaScript, Microsoft Word, Microsoft Excel, Microsoft PowerPoint.

SKILLS

Programming Language: Html, CSS, JavaScript, PHP

Tools: Figma, Microsoft Word, Microsoft Excel, Microsoft Power Point, Diagram.Net

Relevant Skills: Make a report, Writing, Documentation, Team Works

Certifications & Training: Junior Web Programming (BNSP), CCNA Switching Routing and Wireless Essentials (Cisco).