Rizky Maulana Hendradi

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BACKGROUND

Electronics Engineering graduate with hands-on experience in circuit design, embedded systems, and microcontroller programming. Skilled in electronic system analysis, hardware troubleshooting, and IoT development. Experienced in robotics, industrial automation, and PCB design. Strong problem-solving abilities and a passion for innovative electronics solutions.

EDUCATION

Politeknik Negeri Semarang   2022 - Now

SKILL

- C, python, HTML, CSS programming language
- MATLAB Simulink
- LabVIEW
- Arduino IDE
- STM32CubeIDE

EXPERIENCE

Project :

Automated Poultry Farm Monitoring System

- Design a poultry farm monitoring using DHT22, Loadcell, Relay, OLED display with microcontroller STM32. STM32 used for collect data, and send data to Raspberry Pi using USB CDC comunication.
- Raspberry Pi send data to website that's create with HTML and CSS. Raspberry used for web server, using SSE method

Line Follower Robot

- Design a line follower robot, DIY minimum system ATMega250, with driver motor DC using H-Bridge, and use PID controller

Design MATLAB Simulink Fuzzy Controller for Temperature Control

- Design a MATLAB Simulink for temperature control, the experiment device is hair dryer. Control hair dryer with Fuzzy logic Mamdani. Simulink connected to Arduino Uno for realtime simulation