FARHAN IZZUDDIN PRASETYO

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Electrical Automation Engineering graduate (2023) from Sepuluh Nopember Institute of Technology with expertise in control devices, sensors, web programming, servers, and IoT. Proficient in MySQL, HTML, PHP, JavaScript, CodeIgniter 3, Git, C++, Ladder programming and real-time communication via WebSocket. 1 year of experience in Digitalization Projects and Quality Control at PT. Charoen Pokphand Indonesia Sidoarjo.

EXPERIENCE

PT. Charoen Pokphand Indonesia – Sidoarjo, East Java
Digitalization Projects and Quality Control
Oct 2023 – Now

- Developed a "Check Weigher" project on a website using CodeIgniter 3, communication real-time via WebSocket and JavaScript server between users and ESP8266 with a load cell sensor.
- Built an Internet of Things (IoT) concept for an Overall Equipment Effectiveness (OEE) monitoring system for production machines using a proximity sensor.
- Developed an 'Automatic Early Warning System' by processing data from the PT100 temperature sensor, storing it in a MySQL database, and displaying dashboard using Grafana
- Developed a warehouse website using Laravel 10, integrating business processes, ER diagrams, data flows, barcode, and scanner functionality, with Git for version control.
- Developed websites to digitize records, improve traceability, and streamline data collection using native programming and CodeIgniter 3

PT. Heinz ABC Indonesia – Pasuruan, East Java
Electrical Engineer Internship
May 2022 – Sep 2022

- Designed a prototype for an "Automatic Soy Sauce Ingredient Blending System" using a Panasonic FP0-C14RS PLC.
- Implemented an auto-off guarding system on the production line using an Omron CP1L PLC with an Omron D40A door switch sensor.
- Developed a "Bottle Counter System" using a Siemens S7-1200 PLC for a Posimat machine.

PROJECT

Viscosity and Salt Content Control System in the Sweet Soy Sauce Adjustment Process Using the Fuzzy Logic Method at PT. Heinz ABC Indonesia – Pasuruan – Final Project
November 2022 – July 2023

- Developed a viscosity sensor with signal conditioning using an op-amp circuit to measure thickness.
- Programmed in C++ for Arduino with Fuzzy Logic capable of determining adjustment values based on existing cases.
- Designed an automatic control system for motor and pump operations for water addition.

3 Phase Electrical Load Monitoring and Forecasting System – *Project Based Learning*
September 2021 – December 2021

- Designed a SCADA system using Elipse Power Studio software for prototyping.
- Established serial communication from Arduino to NodeMCU 8266 for data processing and transmission over a network.
- Performed electrical load forecasting using the Backpropagation Neural Network method for cost prediction.

Automatic Can Press Machine with Pneumatic System Based on PLC – *Project Based Learning*
March 2021 – June 2021

- using fluidSIM software & programmed a Siemens PLC, sensors and actuators using TIA Portal.

EDUCATION

Bachelor Of Applied Engineering
Sepuluh Nopember Institute of Technology (ITS)
Majoring in Automation Engineering Technology
GPA : 3.46 of 4.00
Agust 2019 – Agust 2023

ORGANISATION

Executive Board for Vocational Faculty Students, ITS
Head of Department of the Ministry of Communication and Information
Mar 2021 – Jan 2023

- Conceptualized and supported organizational & Coordinated 5 members

Earth Hour **Surabaya**
Assistant Coordinator of the Multimedia Division.
Jan 2021 – Jan 2023

- Developed programs and activities as a conceptor & Coordinated volunteers

CERTIFICATE

● English Speaking Conversation – BahasakuInggris	Nov 2024
● Embedded System Internet of Things – BNSP	Jun 2024
● Automation SCADA Bootcamp - PT. ZAADA BANA ENGINEERING	Agust 2022
● Programming PLC Siemens TIA Portal - PT. ZAADA BANA ENGINEERING	Jan 2022