JOHN RAFAEL L. MOLINA

CONTACT

Phone: 09294178927

Email: molinajohnrafael@gmail.com

Address: Block 7 Lot 15 Westdrive Subdivision,

Brgy.Labas, Santa Rosa, Laguna, 4026

Portfolio: https://molinajr-portfolio.vercel.app/

PROJECTS

• Web-Controlled E-Paper Signage for CCIS Faculty Office

 Developed a web-based control system for E-paper displays using ESP32 to show real-time faculty status (In, Out, Lunch) outside office doors, improving visibility and coordination.

• Capstone Project - "Room Signage using E-paper Display"

• Designed an IoT-enabled room signage system that displays room schedules and room details using E-paper technology, managed through a scheduling system.

• E-commerce System

 Developed a basic e-commerce web application with product catalog, shopping cart, user login, and checkout functionality.

• Real-time Weather Monitoring with DHT11 and Rain Sensor

 Implemented a weather monitoring system using Arduino that displays real-time temperature, humidity, and rainfall data on an LCD, useful for environmental tracking.

• IoT-Enabled Tire Pressure Simulation and Monitoring System with Mobile App

• Simulated tire pressure monitoring using Arduino and WeMos with mobile app integration. Features include pressure display, control buttons, and LED indicators for pressure status.

• Product Arrival Report (Excel/VBA)

• Created an automated Excel-based tool using VBA and a barcode scanner to log and track inventory arrivals efficiently, minimizing manual data entry and improving accuracy.

• Return Upon Delivery Form (Excel/VBA)

• Built a logistics return form in Excel with VBA automation and barcode scanner integration to document returned items upon delivery, generating summarized reports for inventory control.

EDUCATION

Mapúa Malayan Colleges Laguna | 2020 - 2025

Bachelor of Science in Information Technology

- College Dean's Lister 3rd Term, 2020-2021
- Research Paper Proposal "Development of a Multi-Channel Inventory Management System for Online Sellers"
- DISTRIPHIL 486-hour internship under Supply Chain Management, specialized in Excel VBA automation with barcode scanning integration for instant inventory updates, realtime reporting, and improved logistics efficiency.
- Certifications
 - CodeChum Python Course
 - NSE 1 Network Security Associate
 - NSE 2 Network Security Associate

Holy Rosary College | 2018 - 2020

Senior High School - Science, Technology, Engineering, and Mathematics (STEM)

SKILLS

Software Development

- 。 C#
- ASP.NET
- Visual Basic for Applications (VBA)
- PHP
- HTML, CSS, JS

Internet of Things

- o Arduino, ESP32, ESP8266, NodeMCU
- Embedded Systems Programming (C/C++) – Arduino IDE

• Database Management

- Microsoft SQL Server
- MySQL

• Tools and Platforms

- Figma
- GitHub