

Cerwin Roxas

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EDUCATION

Tanauan City College | Tanauan City, Batangas

B.S. in Computer Engineering

2020 – 2024

Relevant Courses: Computer Architecture, Data Structures, Foundations of Programming, Software Engineering

FAITH Fidelis Senior High School | Tanauan City, Batangas

STEM Strand

2018 – 2020

Relevant Courses: Engineering, Information Technology

TECHNICAL SKILLS

Programming Languages: HTML & CSS(Advanced), JavaScript (Intermediate), PHP (Intermediate), MySQL(Intermediate), Bootstrap(Intermediate), Logic Circuits(Intermediate), Verilog (Intermediate), VHDL (Intermediate), MATLAB(Novice), Macro Excel & VBA(Novice), GIT(Novice), Arduino IDE/C++(Novice)
Designing: Photoshop & Illustrator(Intermediate), AutoCAD(Novice), Figma(Beginner), Blender 3D(Beginner)
Technical Support: OS Installation(Advance), Microsoft Office(Intermediate), Network/LAN Security(Intermediate), Web Support(Novice), Troubleshooting, Diagnosing Hardware & Software
Operating Systems: Windows 7/8/10/11

PROJECTS EXPERIENCE

Cloud-Based Medicine Vending Machine with Clinic Verification System using One-Time Pin (OTP) | Tanauan City College

May 2024

- Collaborated with a team consisting of 5 members developing the thesis project that dispense over-the-counter medicines that provides ease of access for the students of Tanauan City College.
- Designed most of the front-end using **Photoshop**, **HTML** and **CSS** Frameworks such as **Bootstrap**.
- Develop database of the students and records of dispense using **MySQL**.
- Develop back-end functionalities that handles SMS OTP request with Semaphore gateway using **PHP** and **JavaScript**.
- Develop fetching of data and modification functionalities using **PHP**.
- Created a Flowchart, Block Diagram, Use-case Diagram and Data Flow Diagram of the Medicine Vending Machine with Clinic Verification System using OTP that helps to easily analyze and understand the flow of the system.
- Created a **VHDL** and **Testbench** program using Xilinx for simulation and synthesize presentation before developing the project.

TTECH Inventory System | Torres Tech. Internship

March 2024

- Develop CRUD and debugged back-end functionalities and Database using **PHP**, **JavaScript** and **MySQL**.
- Collaborated with a team of 4 and develop a fully function WebApp called TTECH Inventory System that handles different kind of data from different departments to easily create, identify and modify data info of a computer from different departments of the company.
- Propose solutions and features upon development of the system.
- Design the landing page of the WebApp using Photoshop.
- Develop the front-end design and animations using **Bootstrap** and **AOS Animation CSS** frameworks.

Clap Switch Home Automation | Tanauan City College

December 2022

- Created a program using **Verilog** and **Testbench** on Xilinx to present the design and verification of digital circuits as well as the simulation.
- Helps to create the flowchart of the system.

Indoor Plant Growing with LDR, DHT and Soil Moisture

Sensors using NodeMCU | Tanauan City College

November 2022

- Created a system that can make a plant grows inside the house using the LDR, DHT and Soil Moisture Sensors and IoT based.
- Helps to develop the hardware components connection.
- Collaborate with the team to develop the program of the NodeMCU using Arduino.

Food Delivery System using VBA Macro UserForm for Madridge

Food Corner | Madridge Food Corner | Tanauan City College

April 2022

- Develop a system that provides Food Delivery Management.
- Develop the program code using **Visual Basic Application** and **Macro** on Excel.
- Proposed features of the system management to Madridge Food Corner.
- Helps on planning the functionalities of the system management.

WORK EXPERIENCE

IT Intern | Torres Technology Center Corp. | Calamba, Laguna

January 2024 – March 2024

- Provides Customer Service via phone call for the client of Torres Tech.
- Provides Technical Support which helps to resolve the issues on both hardware and software of the clients.
- Propose and develop Inventory System that helps the members of technical support to handle the computer information of the departments of Torres Tech, Yazaki and Cabrini easily.
- Helps to start developing a WebApp system that checks IP network activeness with location mapping using **Python** as back-end.

Service Crew Member | 182 McDonald's | Tanauan City, Batangas

June 2023 – January 2024

- Provide a good service inside and outside of the fast food restaurant to customers.
- Coordinate with the team that helps to enhance and develop teamwork with different people.
- Maintain safety by following rules to avoid both physical and chemical for food interaction.

SEMINARS & TRAININGS

- **10-Hour BOSH with 2-Hour Training of Trainer for Safety Officer 1** | Mr. Jeffrey D. Villalon 2024
- **GIT - Introduction to Version Control System** | Mr. Kim Howel D. Delos Reyes 2024
- **Front-End Development: CSS and Frameworks** | Great Learning 2024
- **Emerging Trends and Directions towards Embedded System** | Engr. Mari Kirby Castillotte 2024
- **Semiconductor Secrets Unveiled: A deep dive into IC Design and Exploring Beyond Circuits** | Mr. Nichol Alvin C. Antonio 2024
- **Using MATLAB with Python** | Stefan Kerber 2023
- **Artificial Intelligence: Reinforcement Learning** | Engr. Jonel Jozef Catapang 2022
- **Discover the Future Web Developer in You** | Mr. Jakerome Operiano 2022
- **Cybercrime Law in PH** | Engr. Maria Theresa B. Prenda 2021