

JOHN CARLO OCAMPO MUTUC

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<https://myportfolio-ten-orpin-56.vercel.app>

OBJECTIVES

To leverage my skills in programming, and software development to create innovative and engaging solutions, while continuously learning and contributing to the growth of a dynamic team.

PROFESSIONAL EXPERIENCE

Freelance IT Technician

Jan 2020 - Present

- Diagnosed and troubleshoot hardware and software issues for laptops and desktops.
- Performed repairs, system optimizations, and application installations to enhance performance.
- Conducted system cleanups and maintenance to ensure efficient device operation.
- Provided customer support by guiding clients through technical solutions and best practices.

Private Mathematics Tutor

Aug 2024 - Nov 2024

- Provided one-on-one virtual tutoring in Algebra and Geometry via the FLVS platform, helping the student improve grades and test scores.
- Strengthened the student's understanding of concepts and boosted confidence in problem-solving.
- Designed tailored lesson plans and used interactive tools to enhance the learning experience.

PROJECTS

Smart pH Sensor for Real-Time Water Quality Monitoring

- Developed an IoT-based monitoring system for real-time pH level monitoring in aquaculture, using an ESP8266 microcontroller and PH4502C sensor.
- Designed a web app to visualize live and historical pH data, with threshold-based alerts for critical changes.

Hand Gesture Controlled Robot using Arduino Nano

- Programmed gesture recognition using gyroscope data to translate hand motions into directional commands (forward, backward, left, right, stop) with wireless communication via NRF24L01 modules.
- Conducted extensive testing and calibration to ensure accurate gesture detection and reliable robot control. (more on my website)

SKILLS

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|-----------|-------------------|-----------|
| • C / C++ | • Git | • VueJS |
| • C# | • Javascript | • ReactJS |
| • Java | • Python | • CSS |
| • MySQL | • Web Development | • HTML |

EDUCATION

Bachelor of Science in Computer Engineering
Technological Institute of The Philippines

01/2025
Manila City

CERTIFICATES

- | | |
|---|---|
| • CCNA: INTRODUCTION TO NETWORKS | • CCNA: CYBERSECURITY ESSENTIALS |
| • CCNAV7: SWITCHING, ROUTING, AND WIRELESS ESSENTIALS | • CCNA: NETWORK ASSOCIATE CYBER OPS |
| • CCNA: INTRODUCTION TO PACKET TRACER | • CCNAV7: ENTERPRISE NETWORKING, SECURITY, AND AUTOMATION |

TRAINING

- AIOT+: UNLEASHING MACHINE LEARNING IN IOT ERA
- IDEATHON: AGRITHINK! = DEVELOPING AGRICULTURE SOLUTIONS FOR A SUSTAINABLE AGRICULTURE INDUSTRY