JOHN CARLO A. CATILO

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https://github.com/jccatilo
https://jccatilo.github.io

A developer with 8+ years of experience with developing and maintain projects that involve microcontrollers, Python, Linux Servers, and their hardware counterparts. I wish to pursue a career in IT that design/maintain software and devices for network security, productivity, and automation.

Professional Experience

University Research Associate II

- Batangas State University
- June 2024 to Present - *Contractual*
- Projects:
    - TRIOE: Tinkering Resource for Internet of Everything
        - Php 1,400,00.00 University funded project
- PCB design for TRIOE Boards
- Deploying and maintaining applications to university servers
- Consultation services for student and faculty researchers' projects

Science Research Specialist I

- Batangas State University
- November 2022 to April 2024 - *Contractual*
- Projects:
    - ATLANTIS – An IoT based Artificial Intelligence Aquaponic Control and Monitoring System for Aquaponics Greenhouse
        - Php 4,999,371.60 DOST-S4CP-CRADLE funded project
    - BUCO PI – BatstateU Customizable Open Platform for IoT
        - Php 1,000,000.00 University funded project
- PCB design for NVIDIA Jetson SOM carrier board
- Python programming
- Linux Server Operation and Maintenance
- RS485 sensor system management
- Greenhouse actuator controls
- DAVIS Weather station installation and dashboard maintenance

Electronics Engineer

- ROBIN Ph
- November 2021 to November 2022 - *Contractual*
- Designing electrical and electronic requirements for the reverse vendo machine.
- Arduino and python programming
- External and internal component CAD modelling

Network Engineer

- IntegrityNet Solutions Services
- February 2019 to November 2021
- Focus on electrical needs of radio stations and developing hardware/prototypes that automate basic tasks like monitoring and maintaining device status and uptimes.
- Arduino, Python, KiCAD, 3D modelling and slicing softwares, laser cutting machines
- Office works that include maintaining and renewing radio station licenses c/o National Telecommunications Commission Region IV-A

Engineer 1 – Innovations, Development, and Technical Department

- Go!Foton Micro Optics Philippines Inc.
- June 2018 to February 2019
- Software and hardware development on prototypes using microcotnrollers, jigs, and fixtures that aims to improve yield and quality on the production line.
- Acquired skills in PCB design using KiCAD, 3D modelling using AutoCAD, 3D printing using CURA, and Arduino programming for automation projects.

Customer Service Representative

- Alorica Philippines Inc.
- September 2017 to November 2017
- Acquired proficiency in verbal and written skills in English communication and customer handling.

Educational Background

Bachelor of Science in Electronics Engineering, Major in Information and Computing Technology

- Batangas State University Main Campus II
- 2012-2017

Master of Science in Artificial Intelligence

- Batangas State University Main Campus II
- 2021-Present

Certifications and Licenses

Electronics Engineer License

- Professional Regulation Commission of the Philippines
- License no. 0069142

Electronics Technician License

- Professional Regulation Commission of the Philippines
- License no. 0015995

IT Security: Defense against the digital arts

- September 2020 - Coursera
- Credential ID: H8Q2NVU3A4WZ

Crash Course on Python

- May 2021 - Coursera
- Credential ID: PCSDT6BUAFRB

Practical Web Application Security and Testing

- June 2023 –present
- TCM Security, Inc.