JOREN VARQUEZ

COMPUTER ENGINEER



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TECHNICAL SKILLS

Programming: Python, PHP,

JavaScript, C/C++

Frameworks: TensorFlow,

React, Flutter

AI & Vision: OpenCV, YOLOv8,

CNNs

Database: MySQL, Firebase Tools: DJI SDK, WebRTC,

GitHub, VS Code Soft Skills: Leadership,

Communication, Teamwork

EDUCATION

BACHELOR'S DEGREE
Bachelor of Science in
Computer Engineering
Bohol Island State University –
Main Campus (2021–2025)

REFERENCES

Available upon request.

PROFESSIONAL SUMMARY

Motivated and innovative Computer Engineering graduate with hands-on experience in Artificial Intelligence, Web Systems, Embedded Systems, and Drone Technology. Skilled in developing intelligent automation solutions that seamlessly integrate hardware and software to solve real-world problems. Passionate about advancing Al-driven applications, robotics, and web-based control systems. Eager to contribute to cutting-edge projects and grow within dynamic tech environments in your company.

PROFESSIONAL EXPERIENCE

PROJECTS JAN 2025– PRESENT

Aerial Detection of Fall Armyworm (FAW) Infestation in Corn Field

- Designed an Al-powered drone-based system using TensorFlow and OpenCV to detect corn plant infestations.
- Integrated real-time DJI drone control and video analysis through WebRTC for instant detection results.
- Achieved precise classification accuracy with a custom CNN model.

Baptism Scheduling and Certificate Request System

- Developed a web-based PHP + MySQL application for managing parish baptism schedules and records.
- Implemented file upload, automated certificate generation, and secure database storage.

3D Design for FABLABAR++ Academic Exhibit

• Created 3D visual assets and animations in Blender for educational and research presentations.

4-Bit Binary Subtractor

Technologies: IC 7483/7486, 7-Segment Display, Logic Circuit Design

- Designed a 4-bit binary subtraction circuit using combinational logic and arithmetic ICs.
- Displayed real-time subtraction results using 7-segment indicators with negative output detection.

Autonomous Obstacle-Avoiding Robot

Technologies: Arduino, Ultrasonic Sensors, Motor Driver, C/C++

- Built a microprocessor-based robot capable of detecting and avoiding obstacles in real time.
- Programmed sensor logic to calculate distance and trigger directional motor movement.

EXPERIENCE

JUNE 2021 - DEC 2024

- Photographer & Video Editor BISU ICPEP | 2024–Present
- Captured and edited event materials for BISU-ICPEP; improved digital visibility through visual content.
- Embedded Systems Developer (Academic Project) BISU | 2024
- Built IoT prototypes using Arduino and Raspberry Pi for automation and sensor data collection.
- Neural Network Research (Capstone Project) BISU | 2025
- Developed and optimized CNN models for crop disease detection using TensorFlow and Python.