Ken Daniel Delos Santos Llamanzares

Aspiring Computer Engineer

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EDUCATION

Bachelor of Science in Computer Engineering, National University - Laguna   2022 – Present
Calamba, Laguna

SKILLS

- Python Programming & Scripting
- IoT Development · Sensor Calibration & Data Acquisition
- Cybersecurity Fundamentals
- Computer Vision & Machine Learning
- Embedded Systems · Microcontroller Programming
- Hardware–Software Integration & Debugging

ACADEMIC PROJECTS

SwineWatch – ASF Detection and Monitoring System
- Developed a real-time surveillance system using a thermal camera and Raspberry Pi camera to detect early ASF symptoms in pigs. Built the web dashboard using React and Tailwind, integrated Firebase for real-time data, and managed image storage through Cloudinary.

Digital Ears: Emotion Detection from Speech Signals (MATLAB)
- Created a MATLAB-based system to analyze speech using Short-Time Energy and Mean Energy features. Processed pre-recorded audio to identify basic emotions (Angry, Happy, Sad). Designed full DSP workflow including preprocessing, feature extraction, and output generation.

NPK Soil Monitoring System
- Developed an Arduino-based soil nutrient monitoring system using an NPK sensor for real-time measurement and data logging. Implemented simplified threshold logic to identify nutrient deficiencies and integrated serial communication for monitoring and calibration.

MiniBot — Cloud-Controlled Embedded Robot (Arduino + Firebase)
- Developed a Wi-Fi–enabled mini-robot using Arduino and ESP32 that receives real-time movement commands from Firebase Realtime Database. Implemented cloud-based control logic, motor actuation, and command synchronization, allowing the robot to be remotely operated from a mobile or web dashboard.

CERTIFICATIONS

Lean Six Sigma White Belt
Certification
Ask Lex PH Academy

ISC2 Candidate
ISC2

TensorFlow
Keras Bootcamp

Introduction to Cybersecurity
CISCO Networking Academy

OpenCV Bootcamp
TensorFlow Keras Bootcamp, OpenCV Bootcamp, Python for Beginners

Computer System Servicing
(NCII)
National Certification II

The Alpha Data Science
Ask Lex PH Academy