



CRYSTAL U. PULLAN

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SUMMARY

A 4th-year BS Computer Engineering student from National University - Laguna with proven leadership experience as a student-leader and student-athlete. Seeking an On-the-Job Training opportunity to apply and develop technical skills in software or hardware development. Combines problem-solving abilities with teamwork, discipline, and time management skills developed through balancing academics, leadership roles, and athletics.

EDUCATION

Bachelor of Science in Computer Engineering **2022 - Present (Expected Graduation: July 2026)**
National University - Laguna

Senior High School - TVL-ICT (Computer Systems Servicing) **2020-2022**
Upland Integrated National High School

TECHNICAL SKILLS

- **Programming Languages:** C++, Java, Python, Assembly Language
- **Software & Development Tools:** Arduino IDE, MATLAB, Visual Studio Code, Tinkercad, AutoCAD, Multisim, LOGO Soft Comfort
- **Hardware & Embedded Systems:** Arduino, ESP32, Raspberry Pi, Circuit Design & Prototyping, Breadboarding, Soldering, Sensor Integration, Robotics & Automation
- **Database & Cloud Services:** Firebase (Real-time Database, Cloud Storage)
- **Design & Simulation:** Circuit Simulation (Multisim, Tinkercad) & CAD Software (AutoCAD)
- **Other Skills:** Microsoft Office Suite, Technical Documentation & Report Writing

CERTIFICATIONS

- Basic Occupational Safety and Health (BOSH) - Certified OSH Officer (BOSH SO2) | January 2026
- Computer System Servicing (CSS) - NC II Certified | May 2022

ACADEMIC PROJECTS

Home Vertical Farming: IoT Monitoring System

- Automated monitoring using Arduino & ESP32 with soil moisture and pH sensors
- Integrated Firebase for real-time data tracking

Hierarchical Fruit Classification using CNN

- Developed a CNN model using Fruits-360 and Fruits-262 datasets
- Implemented using Python and TensorFlow/Keras

Comparative Analysis of Object Detection Models

- Evaluated YOLOv7, Mask R-CNN, Faster R-CNN, DETR, and SSD
- Compared accuracy and real-time performance

Arduino Car Robotics Projects

- Built line-tracing, obstacle-avoidance, and controllable car robots

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

NU Laguna School of Engineering and Architecture - Student Council (SEA - SC)

- Board Member (Finance Department) | AY 2024-2025

Junior Mechatronics and Robotics Society of the Philippines Laguna Chapter (JMRSP - Laguna)

- Board of Trustee | AY 2024 - Present

NU Laguna Association of Computer Engineering Students (NUL-ACES)

- President | AY 2024-2025

NU Laguna Mechatronics and Robotics Society of the Philippines (NUL-MRSP)

- Vice President for Robotics | AY 2024-2025

Student-Athlete

- NU Laguna Women's Volleyball Team | AY 2023 - Present