Charles Adriel A. Del Rosario

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EDUCATION

Polytechnic University of the Philippines – Sto. Tomas Campus

Bachelor of Science in Electronics Engineering

Laguna College of Business and Arts

Science, Technology and Engineering, and Mathematics

Sto. Tomas City, Batangas September 2024 Calamba City, Laguna August 2020

Alabang, Muntinlupa

August 2023

EXPERIENCE

Microchip Technology Inc. Advanced Test Development Corporation

16-bit Microcontroller Software Test Engineer Intern

- Created, developed, and debugged zeros and randomized test scripts/sequence using Test modes 3, 5, and ICSP Boot Programming (Test mode 0)
- Performed microcontroller tests using the created program for data collection
- Analyzed and presented the data collected to the management

PROJECTS AND SKILLS

Projects: Sage: Portable Device for Optimal Catboost-Driven Fertilizer Source and Rate Recommendations using

Crop and Soil Data designed the first fertilizer source and rate recommendation device armed with Catboost Algorithm to assist farmers in choosing the most suitable type of fertilizer for their crops and soil conditions

SASSy: Smart Audio Surveillance System with Message Alerts using Convolutional Neural Network designed to mitigate security vulnerability associated with darkness with the help of acoustics and deep learning Temperature Sensing Fan with Motion Detector: created a smart fan prototype that automatically enables upon detecting movement; implementing the concept of a closed-loop (feedback) system that maintains desired ambient temperature

Local Area Network (LAN) Design: devised a local network design for City Disaster Risk Reduction and Management Office (CDDRMO) in Calamba City, Laguna

Management Office (CDDKMO) in Calamba City, Lagi

Laboratory: Electronics and Circuits Experiments, Etching, Digital ICs Circuits, Robotics Experiment, CAD Design, 3D

Printing, Machine Learning and Deep Learning with various algorithms

Technical: • Knowledge of Operating Systems such as Windows, Linux, and Unix

- Experienced in microprocessors, microcontrollers, and real-time operating systems
- Proficient with Programming and development with Python, C++, HTML/CSS, and AWK
- Familiar with SQL, Java, JavaScript, React
- Expertise with Data Analysis including, Data cleaning, Data visualization, Machine learning, Deep learning, Big Data processing, and AI deployment using Numpy, SciPy, Pandas, and Scikit-learn libraries.

Languages: English (Proficient), Filipino (Native)

SELECTED AWARDS AND HONORS

Cum Laude, Polytechnic University of the Philippines Sto. Tomas Campus	2024
Academic Achiever (Overall Rank 2 in BSECE Graduating Class), Polytechnic	A.Y. 2023-2024
University of the Philippines Sto. Tomas Campus	
Overall Rank 2, Fourth Year Level, Polytechnic University of the Philippines Sto.	A.Y. 2023-2024
Tomas Campus, GWA: 1.32	
Author, International Conference on Informatics and Computational Sciences	2024
2024, Semarang Indonesia	
Accreditation Service Awardee, Polytechnic University of the Philippines Sto. Tomas	2022
Campus	
Merit Scholar, Department of Science and Technology Science Education Institute	2020-2024
Excellence in Science, Laguna College of Business and Arts	A.Y. 2019-2020
With High Honors, Laguna College of Business and Arts	A.Y. 2019-2020

LEADERSHIP AND AFFILIATIONS

Quizzers Chairman, Organization of Electronics Engineering Students	2023-2024
Member, Kapatiran ng Galing at Talino (KATAGA)	2020-2024
Member, Institute of Electronics Engineers of the Philippines - Batangas Student Chapter	2020-2024
Member, Society of DOST-SEI Scholars – PUPSTC	2020-2024