Philip Jeremiah M. Caleon

Computer Engineer Student

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Summary

I am a computer engineering undergraduate student focusing on both hardware and software development. Currently learning embedded systems, digital design, and machine learning. I have a passion for problem-solving and implementing new innovative technologies. A fast learner who adapts quickly to new advancements, I thrive in dynamic environments and bring dedication and creativity to every project.

Experience

Dyson **May 2025 - August 2025**

Embedded Software Intern First Philippine Industrial Park II

- Expanded knowledge on Microcontrollers (NXP, STM32, ESP32)
- Introduction & implementation to CI/ CD

Education

De La Salle University **October 2020 to Expected February 2026**

Computer Engineering Undergraduate Studies

GPA 2.832

UST Angelicum College **2011 - 2020**

Science, Technology, Engineering, and Mathematics (STEM)

- Took part in Math and Programming club
- Gained hands-on experience in embedded systems by designing and programming sensor-based Lego robots

Awards

4th Place Math Quiz Bee **2017**

UST Angelicum

4th Place Science Quiz Bee **2017**

UST Angelicum

Projects

Glove Controllers for 3D Media Creation in VR **(Ongoing, 2025)**

- Developing an innovative glove controller to assist 3D artists in creating digital artworks.
- Collaborating with a multidisciplinary team to design, prototype, and refine the system.
- Focused on enhancing ease of use and intuitiveness in 3D modeling environments, with future integration into virtual reality.

[Dyson] Demo Fan **June 2025 - August 2025**

- Created a replica of a Dyson fan with NXP boards
- Implemented Unit Testing for CI/ CD
- LCD Feature Added

[Dyson] Torque Test Rig **July 2025**

- Implemented a semi-automatic torque test rig as a destructive test for impellers
- Utilize STM32 Nucleo 64

Developed an IOT Smart Trashbin **March 2025 - April 2025**

- Developed a smart trashbin using ESP32 Wifi Module that alarms user when trashbin is almost full with a buzzer attached to the circuit

Law Office Automation System **April 2025**

https://github.com/daxtangco/mcs-law

- Colllaborated in developing the UI of a web-based platform to automate document requests and case management.
- Implementing automated notifications and secure client-staff communication.
- Ensuring data security with authentication, encryption, and role-based access control.

12V Power Supply **August 2023**

- Developed an AC to DC power supply to charge Lithium batteries
- Served as project lead, overseeing development and coordinating with the team

Seminars

Dyson #FutureThinkersNeeded **May 2024**

- Attended a career session showcasing Dyson's innovative products and internship opportunities
- Gained insights into the application of embedded systems in product development

Skills

Programming	**Embedded Systems**	**Project Management**
Machine Learning	**CI/ CD**	**Frontend Developer**