



# Patrick Beal Calagahan

## Computer Engineering Student

Graduating Student with basic skills in front-end development, mobile development, programming, along with hardware embedded systems.



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Cagayan de Oro City



bosstrich.github.io/Portfolio-Webstite/



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github.com/Bosstrich

## SKILLS

HTML

CSS

JavaScript

C

IoT

Sensors

Embedded Systems

Java

Python

Illustrator

Photoshop

Teamwork

Video Editing

Assembly Language

## EDUCATION

### Junior & Senior High School

Liceo de Cagayan University

06/2014 - 03/2020

Cagayan de Oro City

### Bachelor of Science in Computer Engineering

University of Science and Technology of Southern Philippines

08/2020 - 2023

Cagayan de Oro City

Courses

- Computer Engineering

## PERSONAL PROJECTS

### édafos (Software - Machine Learning, Mobile App) (2022 - 2023)

- A mobile application that integrates computer vision using machine learning with tensor flow to classify whether the captured image of a soil is suitable for planting or not.
- Link:** [https://drive.google.com/drive/folders/1DH41NW8CLX\\_hvRW38Jq3eNMsFHuIZWGb?usp=sharing](https://drive.google.com/drive/folders/1DH41NW8CLX_hvRW38Jq3eNMsFHuIZWGb?usp=sharing)
- GitHub:** <https://github.com/Bosstrich/efafos>

### Lots (Software - Mobile App) (03/2023 - 04/2023)

- A personal mobile application that is spiritual related which allows people to communicate with GOD, Jesus. God speaks to people in myriad ways, and the Lots app demonstrates one way of communicating.
- GitHub:** <https://github.com/Bosstrich/Lots>
- Link:** <https://www.figma.com/file/HZ9d5lbemJtD5fNR91tWom/Lots?type=design&node-id=339%3A264&mode=design&t=8zHMJNiejBMUwDUL-1>

### Disponere (Software - UI/UX) (02/2023 - 07/2023)

- Pitching project in our technopreneurship subject, a concept idea for electronic enthusiast to be able to buy electronic components through a mobile application
- Link:** <https://www.figma.com/file/cxkLF80yYu2gyUiiTXl6Sm/Disponere?type=design&node-id=0%3A1&mode=design&t=IAhd4Q6Uv5sga9Re-1>

### Jeepney Stop System (Hardware - Embedded System, IoT) (02/2023 - 07/2023)

- A project that integrates both hardware and software, wherein users can use a mobile application to prompt drivers ahead of time that a passenger will ride the jeepney at a specific location.
- Link:** [https://drive.google.com/drive/folders/1r0RFGHYC-6JDpnAlW92aG9ZnifAM684?usp=drive\\_link](https://drive.google.com/drive/folders/1r0RFGHYC-6JDpnAlW92aG9ZnifAM684?usp=drive_link)

### Remote Patient Monitoring System (Hardware - Embedded System, ECG) (11/2023 - 01/2024)

- A project that utilizes ECG Sensors with Raspberry Pi 4 to monitor a patient's heartbeat remotely. When the patient has a seizure, the application would notify the user.
- Link:** [https://drive.google.com/drive/folders/1HY6OXkxXepvvSOceJjPP4urVQjFpmL-m?usp=drive\\_link](https://drive.google.com/drive/folders/1HY6OXkxXepvvSOceJjPP4urVQjFpmL-m?usp=drive_link)

### Obstacle Avoidance Robot Car (Hardware - Sensors, IoT) (09/2022 - 11/2022)

- A project which utilizes an ultrasonic distance sensor, along with other electronic components to create a robot car that avoids an obstacle course track.

## LANGUAGES

English

Native or Bilingual Proficiency

Cebuano

Full Professional Proficiency

Filipino

Full Professional Proficiency

## ACHIEVEMENTS

### With Honors - 1st Semester (08/2020 - 10/2020)

Grade 12

### Graduated with Honors (2013 - 2014)

Elementary