

# AUSTIN JUSTINE CASQUEJO

## COMPUTER ENGINEERING

Technological Institute of the Philippines (TIP) Q

Address: Lot 4 Block 11 Valley View Executive Village Phase 3 Valley Golf Cainta, Rizal

Email Address: [austincasquejo@gmail.com](mailto:austincasquejo@gmail.com)

Cellular No.: +639289470680



### CAREER OBJECTIVE

To utilize my strong technical background and analytical skills to contribute to the development of innovative solutions in the field of Computer Engineering. Seeking an opportunity to apply my knowledge in a dynamic and challenging environment that values creativity and collaboration.

### DESIGN PROJECTS COMPLETED/ RESEARCHES

Design of a Mechatronic Solid Waste Segregation System with a Vision-based Classifier For Material Recovery Facilities

The ongoing design project titled "Design of a Mechatronic Solid Waste Segregation System with a Vision-based Classifier for Material Recovery Facilities" focuses on developing a system to enhance waste segregation efficiency at Material Recovery Facilities (MRFs). This system integrates use of mechatronic and embedded system technologies to improve waste management processes of MRFs.

Research, Design, and Development of Motorcycle Helmet Detection using Deep Learning Real-time Detection Algorithm for Road Safety

The research project uses deep learning real-time detection algorithms on motorcycle helmets for road safety. The research presents the implementation of an algorithmic approach to determine the presence or absence of a helmet on motorcycle riders.

Underwater Image Processing : A Web Application for a DSP-Based Underwater Image Enhancement and Color Correction

The research project uses image enhancement for a web application for clear visuals of underwater insights. The research presents the implementation of an algorithmic approach for image clarity and clear insights into images underwater.

Design of Sales Forecasting for a Web-Based Business Financial Analysis System

Developed a web application empowering businesses to actively monitor sales and expenses, while delivering accurate forecasts through advanced data analysis. Managed the integration between frontend and backend systems, designed APIs for forecasting, and coordinated web application hosting.

### ON-THE-JOB TRAINING/ PRACTICUM/ INTERNSHIP EXPERIENCE

- Web Developer  
8Box Solutions Inc.  
15F Centerpoint Bldg, Garnet Road corner Julia  
April 01, 2024 - May 21, 2024
  - Assisting in the development and maintenance of our company website.
  - Collaborating with the design and content teams to ensure a seamless user experience.
  - Writing clean, efficient, and maintainable code.
  - Troubleshooting and debugging website issues.
  - Learning and implementing best practices in web development.

### KNOWLEDGE, SKILLS AND ATTITUDE

As a current 4th year Computer Engineering student in Technological Institute of the Philippines - Quezon City with its orientation towards outcome-based education, I have acquired and can demonstrate the following student acquire outcomes (knowledge, skills and attitudes) necessary to the practice of the computing profession:

- Analyze complex problems and identify and define the computing requirements appropriate for solution.

- Use modern techniques and tools of the computing practice in complex activities.
- Problem solving, and critical thinking skills.
- Ability to demonstrate adaptability, positive workplace attitude, and leadership skills.
- Ability to learn and listen to feedback and criticism.
- Understand professional, ethical, legal, security, and social issues, and responsibilities.
- Capable in programming languages such as Javascript, Python, and C++.

## SEMINARS AND TRAININGS ATTENDED

- Student Development Program 4  
Technological Institute of the Philippines - Quezon City  
January 26, 2024
- Connecting the Future: A Cisco Networking Seminar for the Next Generation  
Technological Institute of the Philippines - Quezon City  
March 31, 2023

## EXTRA AND CO-CURRICULAR ENGAGEMENT AND VOLUNTEER WORK

- Microsoft Student Community - Technological Institute of the Philippines Quezon City  
Member  
November 07, 2023 - Present

## OTHER SKILLS

**Programming** | Python, Javascript, C++  
**Embedded Systems Development** | Arduino, ESP, Blynk, EasyEDA  
**Computer Networks** | Cisco  
**Frontend Development** | React Native, HTML, CSS, Flutter  
**Database Management** | Firebase, MongoDB, SQL  
**Microsoft Office Specialist Excel 2016**  
**Microsoft Office and Google Workspace**

## REFERENCES

Engr. Menchie M. Rosales  
 On the Job Training Adviser  
 Technological Institute of the Philippines - Quezon City  
 mmrinda.cpe@tip.edu.ph  
 09611224410

Engr. Verlyn V. Nojor  
 Faculty Member / Project Design Adviser  
 Technological Institute of the Philippines - Quezon City  
 vvcentecpe@tip.edu.ph  
 09126321212