

Asil Andrei Acasio

Quezon City, 1108 | 09361413702 | abacasio@up.edu.ph | [linkedin.com/in/asilandreiacasio](https://www.linkedin.com/in/asilandreiacasio) | asilacas.io

Education

University of the Philippines Diliman

Bachelor of Science in Electronics Engineering

Related Coursework: Data Structures and Algorithms, Signals and Systems, Circuit Theory

Quezon City, Metro Manila

Aug 2021 - Present

Philippine Science High School – Central Visayas Campus

With High Honors. STEM, Physics Core and Chemistry Elective

International Award of Merit - issued by Republic of Croatia

(Gold) Asian Youth Innovation Award - Youth Category for Disaster, Emergency and Crisis Management

Argao, Cebu

Aug 2015 - May 2021

Experience

EINSTEIN - Philippine Innovators' Society

Member

PSHS-CVisC, Cebu

Aug 2020 - May 2021

- Developed an internationally awarded innovation at the Malaysia Technology Expo 2021 with ASO (Automatic Smoke Observer) which can remotely monitor forest fires using Python, YOLO object detection, and Arduino sensors

Electrical and Electronics Engineering Institute

Digital Signal Processing Lab Intern

UP Diliman, Quezon City

Jun 2019 - July 2019

- Implemented basic machine learning for signal classification using MATLAB and Python
- Assisted in modeling, analyzing, and processing signals from various sources such as audio from native instruments and human vital signs sensor data
- Gained insight on data collection processes for signal processing

Projects

asilacas.io | *HTML, CSS, Javascript/React.js, Firebase*

Mar 2024 - Present

- Designed and coded a responsive and dynamic personal website as a personal challenge using ReactJS, HTML, and CSS

[Hayahay](#) | *Python, Firebase Database, Arduino, C++*

May 2021 - Aug 2021

- Developed and conceptualized a personal home automation system that tracks usage statistics
- Designed and coded frontend UI available for web and mobile, and coded backend processes for automation logic and cloud database
- Built electronics circuits for the IOT sensors and interfaced them with NodeMCU and Arduino sensors

[Buoywatch](#) | *Python*

Aug 2020 - Aug 2020

- Developed a device for monitoring illegal fishing by using the YOLO framework to detect fishing vessels

Skills

Programming Languages: Java, Python, C/C++, Javascript/React, HTML/CSS, MATLAB, Bash, SQL

Simulation Software Tools: LTSPICE, KICAD, MATLAB/Simulink

Developer Tools: Git, Neovim, VS Code, Arduino, IntelliJ, Firebase, Microsoft Office, Google Suite

Leadership & Activities

UP Circuit

UP Diliman, Quezon City

Director of Public Relations and Social Media

Mar 2024 - Present

- Assigned writing tasks to team members and coordinated caption requests from other divisions
- Managed the social media accounts of the organization and handled publishing of posts

SquEEEze Externals Core Team

Feb 2024 - Present

- Handled organization partnerships such as sending MOAs for SquEEEze, a flagship event of UP Circuit