

## Asil Andrei Acasio

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

---

### Education

#### University of the Philippines Diliman

*Bachelor of Science in Electronics Engineering*

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

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

#### 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

#### EINSTEIN - Philippine Innovators' Society

##### *Member*

PSHS-CVisC, Cebu

Aug 2020 - May 2021

- Developed an internationally awarded innovation, ASO (Automatic Smoke Observer), which can remotely monitor forest fires using Python, YOLO object detection, and Arduino sensors

### Projects

[asilacas.io](https://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 basic home automation system that tracks usage statistics
- Designed and coded frontend UI available for web and mobile using Flutter, and backend processes using Python, Firebase Database, and Arduino IDE
- Built electronics circuits for the IOT sensors and interfaced them with NodeMCU and Arduino

Buoywatch | *Python*

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

### Leadership & Activities

UP Circuit

UP Diliman, Quezon City

#### Director of Public Relations and Social Media

Mar 2024 - Present

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

#### SquEEEze Externals Core Team

Feb 2024 - Present

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

#### Social Media Coordinator

Sep 2023 - Feb 2024

- Wrote content and captions for social media publications and compiled weekly current events in technology

### 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