JOSEPH KARL C. SALVA JR

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EDUCATION

- Philippine Science High School - Central Visayas Campus — May 2019
- University of the Philippines Diliman — May 2023
  - Bachelor of Science in Electronics Engineering

ORGANIZATIONS

- U.P. Circuit — Publicity
- Institute of Electrical and Electronics Engineers – Student Body — Publicity
- Institute of the Electronics Engineers of the Philippines UP Student Chapter — Internal Affairs
- Philippine Society of Youth Science Clubs — Publicity

SCHOLARSHIPS

- Merit Scholarship – Department of Science and Technology
- Maxim Integrated Scholarship

PROJECTS

Project TARZAN

- Developed a real-time portable monitoring system that tracks suspicious illegal activity and disaster in forest areas via a wireless sensor network
- Awards received: Gold Award, Young Inventors Challenge (2018, Kuala Lumpur Malaysia), 3rd Place, SPVM National Conference (2018)
- Role: Developer and Hardware specialist
- Technologies used: Arduino, Android

Suroy

- Developed device to monitor PUV location for nearby waiting passengers, and storing the passenger data for analytics to promote tourism
- RFID-based paying system, real-time location tracking, and passenger count
- Received awards: 1st place, Arduino Day (2019); 2nd Place, Hack4PH (2018)
- Role: Hardware specialist in team of four
- Technologies used: Arduino, Android SDK, Google Firebase, Google Maps API

Tabitype

- Developed device that connects to phone app which enables user's voice to interface with keyboard typing and commands to benefit people with inability to type
- Arduino Leonardo ATMega 32u4 chip for HID and Google's Speech to Text API
- Received Awards: 3rd place, Arduino Day (2019)
- Role: Hardware specialist
- Technologies used: Arduino, Android SDK, Google Speech to Text API

Daloy

- Developed device that monitors atmospheric and hydraulic pressure as well as other environmental parameters as a teaching demonstration aid for Physics classes
- Reads pressure data and stores in spreadsheet file to observe pressure in relation to height for compressible and incompressible fluids
- Received Awards: Champion, DOST Innobox 2018
- Role: Hardware specialist
- Technologies used: Arduino, Raspberry Pi, Android SDK

PUBLICATIONS

Radiation Shielding Property of Nemipterus isacanthus (Lagaw) Scales Against Gamma Rays

- Co-authored and published a paper for the 2018 SPVM National Conference, along with 2 ongoing patents

Coconut Coir Based Sound Absorber Board for Noise Pollution Control

- Co-authored and published a paper for the 2017 APEC Youth Scientist Journal

WORK EXPERIENCE

Department of Computer Science - University of the Philippines Diliman, Intern — Quezon City, 2015

Special Applications Laboratory, Department of Electrical and Electronics Engineering - University of San Carlos, Intern — Cebu City, 2019

ACTIVITIES AND LEADERSHIP

Externals Head - Regional Science Camp (2018)

- Raised over $2,000 or P100,000 to organize a regional science camp with over 200 participants from 13 different schools scattered across the region, inspiring young students to take up science through a series of workshops and contests.
- Invited the principals of different schools to send student delegates to participate in the event as Externals Head

Documentation Team Member – UP Circuit (UP Engineering Week 2020)

- Documented the progress for each of the major event participants during EnggWeek 2020 through a compilation of different audiovisual content.
- Was also able to provide audiovisual content for some of the event participants as part of their prerequisites to enter the contest.

Module Security Head – PASSada: PSHS Batch 2019 Online CET Review Center (2020)

- Raised over $5,000 or P250,000 from developing and hosting online reviews and tutorials on College Entrance Exams (CETs) topics, with all proceeds donated to PISTON (Pinagkaisang Samahan ng mga Tsuper at Operator Nationwide), which benefitted the families of jeepney drivers around the country that were jobless during the COVID-19 pandemic
- Developed a format for the encryption and watermark of individual review modules to prevent document leakage as Module Security Head

SKILLS

Software	Python, C++, Java, HTML, CSS, Javascript
Hardware	Arduino, Raspberry Pi
Publicity	Coreldraw, Illustrator, Photoshop, Premiere Pro, Photography, Videography
Language	English, Filipino, Cebuano, Chinese Mandarin