

Digital Design Engineer

ABOUT ME

Digital designer in Verilog with training in UVM verification framework. Studied MEMS design and fabrication in undergrad.

Hobbyist hardware and software developer dabbling in web dev, cloud, IoT and ML/AI applications in robotics. Daily driver Linux user with experience debugging issues in systemd.

EXPERIENCE

May Hardware Engineer

2022 Smartfox Data Solutions, Inc.; Full time; Remote

- Digital design and verification in SystemVernow ilog and UVM.

- Assessed machine learning performance of hardware designs.
- Works with computer graphics (Vulkan, GLSL) and drivers (Windows, Linux).

ORGANIZATIONS

Oct Chief Executive Officer
2021 UP Competitive Robotics Club

Managed organization's transition to face-to-

Oct face activities

2022 - Oversaw 2022 UFM onsite booth

- Oversaw org's first F2F robotics workshop
- Handled elections and yearly constitutional amendments

PUBLICATIONS

2023 Hardware-optimized machine learning model comparison for human activity recognition using the HARTH and HAR70+ datasets

Palabasan, K.R., Rajagopalan, R.S., Manzano, J.M., Rosales, M.D., De Leon, M.T., Hizon, J.R.E.

Submitted as Undergraduate Project. Presented at ISOCC 2023. Furiosa AI Award. doi:10.1109/isocc59558.2023.10396338

2018 Effectiveness of Anti-Overloading System for Automotive Transport (AOSAT) in Selected Truck Drivers in Binangonan Rizal

Otiong, K.SJ., Palabasan, K.R., Ramirez, J.C.B.

Submitted as Senior High School Thesis, Submitted for WICO 2018

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SKILLS

Languages: C/C++, SystemVerilog/UVM, GLSL, Python, LaTeX

OS/Applications: Linux (systemd, deb/rpm/arch, x86_64/ARM), Tensorflow, Vulkan, LTSpice, JAMStack **Miscellaneous:** Hardware/software troubleshooting and debugging, Linux system configuration and maintenance, problem-solving, team communication

EDUCATION

Aug BS Electronics Engineering

2019 University of the Philippines Diliman - Quezon City, NCR
 Graduated summa cum laude (1.12 GWA, equiv.

Aug 3.8 GPA)

2023 Affiliated with UP Microlab for capstone project.

ACHIEVEMENTS

2018 World Invention Creativity Olympiad

Seoul, South KoreaGold Medal

2017 World Invention Creativity Contest

Seoul, South Korea

Gold Medal, MyRIS Special Award

2016 International Olympiad in Informatics

Kazan, Russia Contestant

2015 International Olympiad in Informatics

Almaty, Kazakhstan Contestant

LANGUAGES

HOBBIES