Reimart Sarmiento

sarmientoreimart@gmail.com reimartsarmiento.com github.com/ReimartS

Education

Technological Institute of the Philippines - Q.C. – B.Sc. in Electronics Engineering Oct 2022

- GWA: 1.5

Projects

Electronics Engineering Capstone Design

- Developed a dissolved ammonia soft sensor for Japanese eels aquaculture alongside FDN Farms resulting in a conference publication. Amora, Sarmiento, et. al (2022). Soft Sensing Measurement of Dissolved Ammonia Nitrogen in Tank-Based Eel Aquaculture System Utilizing Deep Learning. 2022 IET-ICETA.
- Prototyped a water monitoring device that measures temperature, dissolved oxygen, pH level, electrical conductivity, and dissolved ammonia by using only four physical sensors and one soft sensor respectively.
- Achieved an accurate deep learning model for dissolved ammonia prediction by obtaining a 95% accuracy in the validation test by training the model using hyper parameter optimization.
- Implemented the deep learning model in a Raspberry Pi for edge inference using ONNX runtime, resulting in a faster inference time while maintaining its accuracy.

Experience

Data Entry Intern, Mines and Geosciences Bureau – Quezon City Apr 2018 – May 2018

- Digitized paper documents for increased accessibility, better data management, and enhanced security.
- Automated data entry in Python resulting in a faster completion time.

Licenses and certifications

Professional Regulation Commission – Registered Electronics Engineer Apr 2023

- PRC Registration Number: 0078690

Coursera – Neural Networks and Deep Learning Dec 2022

- Credential ID: K8HAABR2HGPM

Skills

Development Tools: LTSpice, LabVIEW, Multisim, KiCAD
Languages: C, HTML, CSS, MATLAB, LaTeX, Python

Awards and Scholarship

Academic Scholar June 2018 - Oct 2022

- Graduated Cum Laude