JERVIN DE JESUS LOUIS

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Profile Summary

Detail-oriented engineering graduate with hands-on experience in data annotation using CVAT, specializing in image annotation for computer vision applications. Proficient in quality control, Cloud-based GitHub documentation, demonstrated through projects like annotating 32 sequential images for car detection and tracking.

Skills_____

- Research & Development | CVAT | Generative AI | Documentation | Data Annotation (Image & Video)
- Cloud-based GitHub documentation | Quality control & Error correction
- Strong ownership | Team collaboration | Problem-solving | Attention to detail

Experience_____

Electronic Warfare Intern — **Philippine Air Force** — *Villamor Air Base, Pasay City* — **12/2024 – 02/2025**

- Collaborated with a team to design and simulate electronic warfare technologies, contributing 20% to project progress through R&D role.
- Designed a 1W Buck converter for high power output, and utilized LTspice for schematic layout of the system, contributing 10% of overall project progress of 950th CEWW unit.
- Designed and simulated a 2.45 GHz potter horn antenna and 5.8 GHz Conical antenna using ANSYS HFSS, contributing 10% of overall project progress of 950th CEWW Unit.

R&D ECE Intern — **WEHLO** — *Mapúa University, Intramuros* — **05/2018 - 04/2022**

- Collaborated with a team for Inventory of all components, documentation, creation of technical reports and presentations.
- Tested sensor components, and troubleshooting DC circuits to confirm functionality.
- Assisted in deploying three WEHLO weather monitoring systems in Angat, Bulacan, ensuring the systems are operational in the field.

Education_____

Bachelor of Science — **Mapúa University** — *Intramuros, Manila* — **08/2007 - 12/2010**

- Major in Electronics and Communications Engineering
- Thesis – *"Pulse Generator for Intentional Electromagnetic Interference (IEMI) Utilizing a 2x2 Inset-Fed Microstrip Phased Array Patch Antenna"*

Relevant Projects_____

CVAT-Project 1: Street Still Image:

- **Portfolio**: https://github.com/A0-V1/CVAT-Practice-Annotation.git and go to 'Street Image' folder.
- Familiarization of cloud-based CVAT interface by watching CVAT and OpenCV YouTube courses.
- Annotated a street image with two labels (car, person) using bounding box shape in CVAT, developing CVAT annotation skills by practical application.
- Created a detailed documentation in GitHub for possible review.

CVAT-Project 2: Car Detection and Tracking Image Sequences

- **Portfolio:** https://github.com/A0-V1/CVAT-Practice-Annotation.git and click 'Car Detection and Tracking'.
- Utilized CVAT to annotate train dataset of Car Detection and Tracking from Kaggle | Utilized bounding boxes (track mode).
- Annotated and tracked cars across 32 sequential images in CVAT, followed by a detailed quality review by inspecting individual frames for inconsistent bounding box sizes (due to track mode variability) and correcting it by resizing the bounding box to fit each 'car' object accurately.
- Export format: **CVAT for images 1.1**
- Created a detailed GitHub documentation for possible review.

Relevant Certifications_____

- **Generative AI for Everyone** by Deeplearning.AI
- **TOEIC Certificate:** B2 Upper-Intermediate proficiency