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**

- Conducted research and development of electronic warfare technologies under 950th CEWW unit.
- 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**

- Inventory management of all components, documentation, created technical reports and presentation.
- 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:

- Familiarization of CVAT interface. Developed foundational skills in data annotation by taking the CVAT's YouTube Course.
- Created two class: *"person"* and *"car"* and Bounding Box method was used for labeling. Enhancing data annotation familiarity through CVAT.
- Independently completed an image annotation project using CVAT, labeling an image with multiple objects (cars, persons) via bounding boxes method.
- **Portfolio**: https://github.com/A0-V1/CVAT-Practice-Annotation.git and go to 'Street Image' folder.

CVAT-Project 2: Car Detection and Tracking Image Sequences

- Annotated and tracked cars across 32 sequential images in CVAT, followed by a detailed quality control review of individual frames to correct inconsistent bounding box sizes and remove random appearance of image annotations in some frames due to 'track' mode.
- Utilized 'Projection' feature for a still car throughout the 32 frames.
- Ensured consistency and accuracy in labeling the cars with bounding boxes.
- Dataset source: https://www.kaggle.com/datasets/amitkumargurjar/car-detection-and-tracking-dataset
- **Portfolio:** https://github.com/A0-V1/CVAT-Practice-Annotation/tree/main/Car%20Detection%20and%20Tracking

Relevant Certifications

- **Generative AI for Everyone** by Deeplearning.AI

Others

- **TOEIC Certificate:** B2 Upper-Intermediate proficiency