

Angela Victoria Fruelda

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TECHNICAL SKILLS

Programming Languages: C++, Python, JavaScript, PHP

Web Development Frameworks & Tools: HTML, CSS, Bootstrap, Streamlit

Object Detection & AI Tools: YOLOv8, Roboflow, LM Studio

Database & Backend Technologies: SQL, MySQL, Flask

Development & Collaboration Tools: Git, Postman, Anaconda, Google Colab, Jupyter Notebook, VS Code

PROJECTS & EXTRACURRICULARS

1st Runner Up Digital Electronics Breadboarding Regional Competition December 2024

- Collaborated with a partner to analyze and solve digital electronics problems under strict time constraints.
- Interpreted schematics to create clear and accurate breadboard layouts.
- Designed and implemented logic circuits using gates (AND, OR, NOT) to address decision-making processes based on multiple inputs.

VisionBot December 2024

Technologies Used: Python, Roboflow, YOLOv8, Streamlit, LM Studio, Anaconda

- Developed a dynamic website combining real-time object detection with conversational AI to create an interactive user experience.
- Managed project dependencies and streamlined development using an Anaconda environment.
- Integrated YOLOv8 with Streamlit to build an interactive web application.
- Implemented local Large Language Model (LLM) responses using LM Studio Inference Server.
- Check Project Demo here:
https://drive.google.com/file/d/1ZmW1NGMcFeyOIWeJ5Yx4Q3m8TBiYMknD/view?usp=drive_link

Dynamic Home Automation System August 2024

Technologies Used: HTML, CSS, PHP, Python, C++, Arduino, MySQL Database Integration

- Designed a system to manage and monitor devices across different room in house miniature in real-time.
- Implemented HTTP requests for seamless device state updates and interactive visual elements.
- Enhanced user interface through dynamic data visualization and control.
- Check Project Demo here:
<https://drive.google.com/file/d/1uXxzJSfJWVAfc8sHE5HRdbppHAdBOLX1/view?usp=sharing>

24 Seconds Shot Clock January 2024

Tools Used: Proteus, Manual Etching Techniques

- Collaborated with teammates to design simulate a shot clock system using digital electronics.
- Applied circuit design and programming skills to achieve precise control and functionality.
- Check Project Demo here:
https://drive.google.com/file/d/1Hw-Ju3kHPmm2RFJ4SxRYwadPclY_HP-C/view?usp=sharing

WORK EXPERIENCE

Taisei Electronics Philippines (TEP)

January 2025 – Present

Data Developer Support Intern | Technologies Used: Python Pandas, SQL Queries, MySQL, Flask

- Collaborating with cross-functional teams during agile sprints to develop and improve a system.
- Utilizing Python (Pandas library) to clean and manipulate raw data, ensuring it is accurately processed and integrated into the system.
- Working with MySQL and SQL queries to ensure the database is structured efficiently and data integrity is maintained.

Floridablanca Taekwondo Training Center

March 2019 – September 2021

Taekwondo Instructor

- Developed strong leadership and team-building skills by mentoring students of diverse ages and skill levels.
- Built a strong sense of community and teamwork through organizing events, competitions, and group activities.

CHARACTER REFERENCES

Engr Gemma P Ramos

Faculty-in-charge, BSCpE

University of Batangas – Lipa Campus

0991-791-5632

Engr Charles Ray B Juanillas

Faculty Member

University of Batangas Lipa City

0918-224-0445

LtC German B Rosales GSC PA (RES)

Commandant UB Lipa ROTC Unit

0917-506-3280

Sgt Michael N Bituin PAF

Fitness and Combative Instructor

Philippine Air Force Special Service Group

0916-213-2761