

# Angela Victoria Fruelda

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## TECHNICAL SKILLS

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**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

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### 1<sup>st</sup> 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](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](https://drive.google.com/file/d/1Hw-Ju3kHPmm2RFJ4SxRYwadPclY_HP-C/view?usp=sharing)

## WORK EXPERIENCE

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### **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 purchase order 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

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### **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