

- 145-A, Brgy. San Marcos,
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Frances Dominic BANAAG

SKILLS

- Highly Logical
- Proficient in Programming using python, c++, matlab, microsoft visual basic and vhdl
- Front-End Webpage Development Experience
- Experience with Git
- Highly Knowledgeable in statistics and data processing
- Highly Adaptable to unfamiliar technologies
- Highly Knowledgeable in the field of Electrical and Electronics Engineering
- Experienced in PCB design and fabrication using Logism and Eagle CAD software
- Adept experience in Leadership and management
- Advanced Photography Skills

WORK EXPERIENCE

Employment History

- Software Engineer (Infix A.I.): June 2022 - August 2022
- HW Electronics Engineering (Dyson Pte Ltd) - September 2022 - August 2023
- SW Engineering Trainee (White Cloak Technologies) - September 2023 - Present

Programming Experience

Python

- Automated Engineering BOM(Bill-of-Materials) data validation using pandas (Dyson Electronics Pte Ltd)
- Multiprocessing Automated video frame capturing software using selenium (Infix A.I.)
- Console Based 2-player chess game with check/checkmate capabilities and possible move checker (University Project)

Microcontroller programming using C++

- Automated Capacitance based cooking oil FFA concentration arduino based measurement device (University Thesis)
- Maze-solver and path detection arduino based automated robot (University Project)

Front-End

- HTML, CSS and Javascript for Personal Website (<https://empoleon2541.github.io/Website/>)

Matlab

- Y-bus & Z-bus matrix formation program (University Project)
- Frequency Band Pass Filter (University Project)
- Hourly Electricity Cost Calculator (University Project)

Others

- Database Management using Postman (Infix A.I.)
- Nuvoton Programming using C (University Class)
- vhdl programming (University Class)
- Microsoft Visual Basic Programming (University Class)

Frances Dominic BANAAG

EDUCATION

University of the Philippines – Los Baños

Bachelor of Science in Electrical
Engineering Majoring in Electronics
Engineering
Class of 2022

San Pablo City Science High School

Class of 2014

AWARDS AND ACCOMPLISHMENTS

DOST–SEI Merit Scholarship

2014–2017

Provincial Scholar of Laguna

2015–2019

AFFILIATIONS

UP Photographers' Society

Member since 2016

Vice President in 2019–2020

UP Lawn Tennis

Raquetteers' Club

Member since 2018

CHARACTER REFERENCES

Allan Maligaya

Dyson Electronics Manager
Allan.maligaya@dyson.com

Jerard Ancel D. Eusebio

UP Photographers' Society Adviser and DHUM
UPLB Assistant Professor
jdeusebio@up.edu.ph

Engr. Aryan Paola A. Manalo

Adviser and Former DEE UPLB Instructor
aamanalo@up.edu.ph

PUBLICATION

DEVELOPMENT AND ASSESSMENT OF A
CAPACITANCE BASED SENSOR FOR
FRYING OIL FFA CONCENTRATION
EVALUATION (University Thesis)

Statistics and Data Processing

- Analysis of Relationship between Capacitance and FFA concentration for Cooking Oil (University Thesis)
- 2014 Philippine Statistics Quiz UPLB representative

Digital Circuit Design and Fabrication

Eagle–CAD

- Interdigital capacitor based sensor design and fabrication
- Logic circuit based vending machine system design and fabrication

Logism

- Logic circuit based automotive lights controller design and simulation (University Project)
- Logic circuit based christmas lights (University Project)

Management and Leadership

- Various Management class exercises
- Vice Presidential duties for the UP Photographers' Society
- Management of the shift to an online organizational set-up during the start of the pandemic

Event/Project Lead

- BOM comparison automation software development (Dyson Electronics Pte Ltd)
- Pagitan - A UP Photographers' Society Exhibit

Certifications

- Become a Data Analyst Learning Path (LinkedIn Learning)
- Advanced Python: Working with Databases (LinkedIn Learning)
- Predictive Analytics Essential Training: Data Mining (IIBA)
- Data Cleaning in Python Essential Training (LinkedIn Learning)
- Big Data in the Age of AI (NASBA)
- Agile: New Product Development for Manufacturers (LinkedIn Learning)
- Project Management Foundations: Small Projects (LinkedIn Learning)
- JavaScript Essential Training (LinkedIn Learning)
- Designing Restful APIs (LinkedIn Learning)
- Electrical Systems: Communications and Data (PMI)