- 145-A, Brgy. San Marcos, San Pablo City, Laguna
- fcbanaag@alum.up.edu.ph
- +63 936 496 5076

Frances Dominic
BANAAG

SKILLS

- **Python (with experience with Pandas)**
- **Dart (flutter)**
- **Javascript**
- **HTML**
- **CSS**
- **Postgresql**
- **Matlab**
- **Postman**
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WORK EXPERIENCE

Employment History

- Hardware Electronics Engineering (Dyson Pte Ltd) - September 2022 - August 2023
  - BOM Compare Automation using Pandas
  - Electronic HW design verification
  - Production Line support for failure analysis and problem solving

- Software Engineer (Invix A.I.): June 2022 - August 2022
  - Automate image collection from CCTV feeds using Selenium
  - Update and organize database using Postman

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 (Invix 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)

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 Raqueteers' 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)

Others

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

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)