

Jacob Lawrence Alfante

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EDUCATION

Colegio De Muntinlupa

Bachelor of Science in Computer Engineering

Sucat, Muntinlupa

2022 – Present

- Relevant Coursework:
 - * Object-Oriented Programming
 - * Data Structures and Algorithms
 - * Computer Networks and Security
 - * Microprocessors
 - * Logic Circuit and Design
 - * Database Management Systems

Olivarez College

Science, Technology, Engineering, and Mathematics Strand (STEM)

Dr. Santos Avenue, Parañaque

2020 – 2022

Las Piñas National Highschool Gatchalian Annex

Grade 8 - 10

Manuyo Dos, Las Piñas

2017 – 2020

SKILLS

- **Programming Languages:** Experience in C++, C, Java, HTML, CSS, JavaScript, PHP, MySQL
- **Engineering Software:** Proteus, Arduino IDE, ModelSim, EagleCAD, SolidWorks
- **Productivity Software:** Microsoft Excel, Word, PowerPoint, Canva
- **Hardware:** Arduino microcontrollers, electronic circuit design, sensor integration
- **Soft Skills:** Critical thinking, problem-solving, adaptability under pressure, strong work ethic, continuous learning mindset

PROJECTS

Enhanced Request Management System

- Developed a database-driven inventory management system for the General Services Office of Colegio de Muntinlupa using HTML, CSS, Javascript, and PHP MySQL
- Implemented advanced search functionality, sorting, and filtering capabilities to enhance user efficiency

Digital Door Lock System using Integrated Circuit Logic Gates

- Designed and implemented a secure digital door lock system using discrete IC logic gates (AND, OR, NOT, NAND, NOR) without the use of any microcontroller
- Enabled 4-digit passcode input via DIP switch and LED indicators for visual feedback

Personal Project - Website Profile

- A simple personal website created for displaying personality
- Website is deployed on GitHub
- Developed using HTML and CSS

ACADEMIC ACHIEVEMENTS

Academic Excellence Award: Dean's Lister - 1st Year College (1st Semester)

Academic Excellence Award: Dean's Lister - 1st Year College (2nd Semester)

Academic Achievement: Academic Citation - Grade 12 (STEM)

Academic Achievement: With Honors - Grade 11 (STEM)

Regional School Press Conference Sportswriting: Qualifier and Participant (S.Y. 2019 - 2020)

Division School Press Conference Sportswriting: 3rd Place Overall (S.Y. 2019 - 2020)

AFFILIATIONS

ICPEP.se - Colegio de Muntinlupa: Student Member

Computer Engineering Society: Former Logistics Committee Member (2023)