Jacob Lawrence Alfante

Blk. 9 Lt. 6 Parrot St. Green Valley Cmpd. Gatchalian Subdivision

+639622097617 | alfante.jacoblawrence.d.097@cdm.edu.ph

| https://jacobalf.github.io/Resume/

EDUCATION

Colegio De Muntinlupa — Sucat, Muntinlupa
Bachelor of Science in Computer Engineering — *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 — Dr. Santos Avenue, Parañaque
Science, Technology, Engineering, and Mathematics Strand (STEM) — *2020 – 2022*

Las Piñas National Highschool Gatchalian Annex — Manuyo Dos, Las Piñas
Grade 8 - 10 — *2017 – 2020*

Las Piñas National Highschool Almanza — Almanza Uno, Las Piñas
Grade 7 - 8 — *2016 – 2017*

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, Figma

- **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 together with other team members
- Implemented advanced search functionality, sorting, and filtering capabilities to enhance user efficiency

Fleet Management System

- Developed a digital solution to replace a manual vehicle maintenance and repair tracking system for the Mechanic Department in Muntinlupa City

- Implemented automated reminders using Google Calendar and utilized Google Sheets/Excel to streamline operations, reduce errors, and improve maintenance efficiency, ultimately extending vehicle lifespans and enhancing service delivery.

Personal Project - Website Profile

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

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

Arduino LED Shield

- An LED shield created in EagleCAD
- Worked with other team members in designing the layout and fabricating it into a printable circuit board

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)