John Lester C. Fuertes

Birthdate: Sept. 14, 2003 **Age:** 22 yrs. old
Sex: Male **Religion:** Catholic

Address: Blk 2, Lot # 28, Malakas St, Lupang Arenda, Sta Ana. • Taytay, Rizal 1920 **| Contact**: 09774129580• johnlester.fuertes@gmail.com **| Github**: github.com/jlfuertes14 **| Portfolio**: https://jlfuertes14.github.io/my-portfolio

Education

Rizal Technological University Maybunga, Pasig
Bachelor of Science in Computer Engineering Expected Graduation Date: 2026
Thesis: Design and Development of an IoT and AI-based Egg Incubator and Hatching System for Philippine Mallard Duck (HatchWatch)

Buting Senior High School Buting, Pasig
- Took Science, Technology, Engineering, and Mathematics (STEM) strand 2020-2022

Nagpayong High School Pinabuhatan, Pasig
- Graduated with Honors and an average of 94 2016-2020

Nagpayong Elementary School Pinagbuhatan, Pasig
- Participated on English Choral Recitation winning District 1st Runner up 2010-2016

Technical Projects

Lumina Electronics E-Commerce Platform
- Architected a full- stack e-commerce website using Vite, Vanilla JS, HTML5/CSS3, NodeJS and MongoDB to showcase electronic components.
- Designed a custom UI/UX for the product catalog and admin dashboard, focusing on responsiveness and user flow.
- Managed version control and deployment through **GitHub**, ensuring clean and documented code practices.

Barangay Digital Portal
- Developed a comprehensive digital management system to streamline barangay services, including document requests, resident records, and community announcements.
- Built the front-end using React/Next.js and Tailwind CSS for a responsive, modern user experience.
- Deployed the application via Vercel to ensure high availability and fast performance for end-users.

Self- Balancing Robot & Desktop Companion Bot
- Developed a desktop companion using ESP32-S3 and SHH1106 OLED display.
- Developed a Self-Balancing Robot using ESP32, with gyroscope MPU6050 and DC motors
- Implemented and tuned a PID (Proportional-Integral-Derivative) controller to stabilize the robot's center of gravity and eliminate wobbling

Leadership & Activities

Pasig City Scholarship | *Scholar/Member* **|** *2015 - Present*
- Selected for a competitive local government scholarship program, maintaining all requirements for over a decade.

Professional Development Seminars | Aug 2025 – Dec 2025
- Participated in a series of 10 technical seminars covering IoT (Internet of Things), API Security, and React Programming to stay current with industry standards.

STEM Research Lead | *Buting Senior High School*
- Led two feasibility studies: "Piezoelectric Powered Foot Stepper Generator" and "Lemongrass as a Natural Mouth Cleaner.
- Coordinated team experiments and data collection, resulting in a 94% GPA and graduation with honors

Skills & Interests

Technical: Basic Knowledge with HTML/CSS, Javascript(React/Next.js), C++/Arduino, C# and Python/Micro python
Language: Proficient with Tagalog and English
Software & Tools: VS code & Visual Studio, Antigravity, Arduino IDE, Thonny, KiCAD, ThinkerCAD and MATLAB
Interests: Web Development/WebApp, Robotics and Embedded Systems.