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GET TO KNOW ME

Get to Know Me

Hi, I'm Panagiotis Tsakiropoulos — welcome to my portfolio!

I'm passionate about engineering and love turning ideas into something real and impactful. What excites me most is solving problems creatively, building user-friendly solutions, or blending creativity with technical skills. When I'm not working on projects, you'll usually find me experimenting with new tools, sketching ideas, learning something new, or exploring outdoors.

I believe in continuous learning, simplicity in design, or making technology more human. Through this portfolio, I'd love to share my journey, projects, and the things I'm building along the way.

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MY PROJECTS

My Projects

🟦 ***WinShortCuts Guide***

A complete guidebook I wrote and published, covering every Windows shortcut in detail. It helps users work faster and smarter, and I've already shared it online.

🖼️ ***Photoslidio***

A slideshow app I built with Python that includes fade transitions, synced background music, license checking, and a demo/full version system. I also developed the installer, activation system, and online genuine checker.

🦢 ***Ducky the Friendly Duck (In Progress)***

A robotic duck concept built on Raspberry Pi Zero 2 W. It's designed to protect babies by detecting unsafe actions, crying, or even gas (fart/poop detection 😅). It also connects to an app with NFC pairing and notifications.

🛍️ ***Blue Bag Clothes eShop***

A stylish eShop website I designed for my sister's brand, featuring multiple product pages, modern design, and smooth navigation.

🖥️ ***POS/Check-in Device***

A Raspberry Pi Zero 2 W project with LCD, LEDs, buttons, and a buzzer. It greets visitors, sends alerts when help is requested, and connects to a custom Android app for notifications and logs.

🎛️ ***Real-Time Bike Speedometer Dashboard***

A web-based dashboard built with HTML, CSS, JS, and Flask. It shows bike speed on a scale with a moving arrow, from green (safe) to red (fast).

MY PROJECTS

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MY SKILLS

Engineering Skills
⚡ Electrical & Computer Engineering
Microcontrollers & Embedded Systems – working with Raspberry Pi, sensors, LEDs, LCDs, and custom wiring.
Circuit Design & Prototyping – building functional devices like the POS/Check-in system and Ducky the Friendly Duck.
Automation & Control – integrating hardware with software for smart responses (alerts, notifications, sensors).
🔧 Mechanical Awareness
Designing and building custom enclosures (3D pen/3D print).
Hands-on skills with assembly, repair, and precision tools.
Practical approach to combining mechanical parts with electronics.
💡 Applied Projects
IoT Devices – connected systems that send alerts and data to apps.
Robotics Concepts – integrating motion, detection, and interaction into prototypes.
Real-World Problem Solving – creating tools that make everyday tasks easier (speedometer dashboard, check-in device, safety robot).

MY SKILLS

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Sustainability

Sustainability

I believe technology and creativity should go hand in hand with responsibility. For me, sustainability isn't just about being eco-friendly — it's about making smarter choices in how I design, build, and share projects.

🌍 How I Apply Sustainability

Efficient Design – I focus on creating solutions that are simple, durable, and reusable.

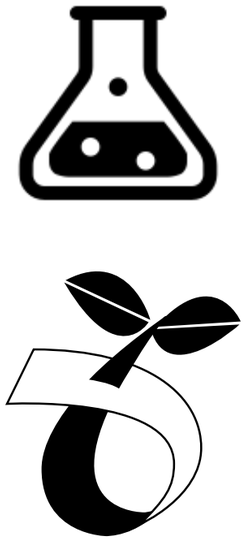
Digital-first – reducing waste by prioritizing digital guides, online tools, and paperless workflows.

Hardware Use – when working with electronics like Raspberry Pi or sensors, I reuse components where possible and design for longevity.

Minimal Waste – experimenting with 3D pens/printing and other builds in a way that minimizes leftover materials.

🌱 My Philosophy

Small choices add up. Whether it's reducing plastic, reusing materials, or creating tools that save people time and resources, I try to make my projects reflect a more thoughtful and sustainable approach to technology.



Sustainability