CHRISTIAN FAUCI

Electronic Engineer

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About Me

I'm an **Electronic Engineer** who loves solving problems and building high-impact products, from hardware to web applications. Strong focus on embedded systems and modern software stacks. Currently deepening my skills in **machine learning** and AI tools to bridge electronics and intelligent systems.

Education

University of Palermo   **Expected Graduation: February 2026**
Bachelor of Electronic Engineering — Telecommunications

- Courses: Embedded System, Internet of Things, Computer Architecture, Automatic Control, Applied Telecommunications, Digital Signal Processing, Electronic Calculators, Modern Electronics, AutoCAD
- ERASMUS+ — **Univerzita Pardubice**, Czech Republic — Focus on **Digital Signal Processing and Signals**, Automatic Control, Matlab and Simulink

Technical Skills

Languages: C++, Python, HTML, CSS, JavaScript, Typescript

Libraries/Frameworks: ReactJS, PostgreSQL, NextJS, NodeJS

Projects

Fitness Tracker | Source Code   **Python | Pandas | Scikit-learn**

- Developed a complete Human Activity Recognition (**HAR**) pipeline to classify complex gym exercises from raw IMU accelerometer and gyroscope **signals**, enabling accurate recognition of movement patterns.
- Engineered advanced **signal-processing** and **ML workflows** using **FFT** frequency extraction, temporal window abstraction, PCA dimensionality reduction, custom feature-engineering, and multiple classifiers including **Random Forests, Neural Networks, KNN, and Naive Bayes.**
- Supports real-world applications such as automated rep counting, form monitoring, workout analysis, rehabilitation tracking, and integration into wearable fitness technologies and smart-coaching systems.

Find a Player | Source Code   **TypeScript | React | Tailwind CSS**

- Developed a modern **web application** that allows users to quickly create and join local sports matches for football, basketball, volleyball, padel, tennis, and more.
- Built the frontend using **React**, **TypeScript**, **Tailwind CSS**, implementing features such as match creation, filtering, dashboards, and in-app chat
- Enabled seamless coordination between players through automated participant management, push notifications (**Firebase Cloud Messaging**), and calendar integration, simplifying local sports organization

Booking App | Source Code   **React | Node.js | Express | MongoDB**

- Engineered a **full-stack Booking App** allowing users to register, manage properties, upload images, and handle bookings through an intuitive interface
- Implemented the platform with the **MERN stack (MongoDB, Express, React, Node.js)**, integrating **JWT authentication**, **AWS S3 image storage**, and responsive UI with **Tailwind CSS**.
- Optimized user workflows with a comprehensive dashboard for property and booking management, secure image uploads, and real-time booking operations, enhancing overall user experience

Spoken Languages

Italian (Native)	English (C1)
French (B1)	German (A2)