

Daniel Fausto Franco

Software Developer (Full-Stack, TypeScript) | Firmware, Electronics, Robotics

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PROFESSIONAL SUMMARY

Software Developer with 7+ years of experience building and supporting solutions at scale (POS, kitchen management, dashboards and autonomous robots) with React, TypeScript, Angular, Vue.js, Node.js, SQL and Python, backed by a strong Biomedical Engineering foundation: embedded firmware, PCB design and robotics (ROS). A hybrid profile able to deliver products end-to-end, from the microcontroller to the frontend, with experience in payment integrations and AI (OpenAI, Gemini). Focused on software quality, clean architecture and continuous improvement.

TECHNICAL SKILLS

Languages:	TypeScript, JavaScript (ES6+), Python, C++, C, C#, SQL
Frontend:	React, Angular (v15-v20), Vue 3, Next.js, RxJS, NgRx, Redux Toolkit, HTML5, CSS3/SASS, TailwindCSS, Bootstrap, Material-UI, Recharts, ag-grid
Backend:	Node.js, Express, Flask, REST APIs, MongoDB, SQLite, MySQL, PostgreSQL, Sequelize
Cross-platform:	Electron, Cordova, peripherals (printers, scanners, cash drawers), Socket.IO, SignalR
Applied AI:	OpenAI API, Google Gemini, OCR (Tesseract.js), Gazebo simulation/training
Hardware/Firmware/Robotics:	C/C++ firmware, microcontrollers (PSoC 1/4/5/6, PIC, ATmega, ESP32, Arduino, Raspberry Pi), FPGA (Basys), I2C, SPI, UART, CAN, BLE, motor drivers and actuator control, ROS / RVIZ / Gazebo, PCB design (Eagle, Proteus, Multisim, OrCAD), CAD/3D and additive manufacturing (SolidWorks, Inventor), instrumentation (LabVIEW, MATLAB), SMD soldering
Testing:	Jest, Playwright, Protractor, Cypress, Mocha, Karma/Jasmine
DevOps/Tooling:	Git, GitLab, Docker, CI/CD, Webpack, Vite, Jira, Slack
Methodologies:	SOLID, Clean Architecture, Agile / Scrum

WORK EXPERIENCE

Software Developer - GA Tech (assigned to Xenial / Global Payments)

Feb 2023 - Present | Remote

Platform used by global brands: Burger King, Denny's, SeaWorld, Carrefour, H&M, Volkswagen, Royal Caribbean, Ironman

- Development and support of the Genius POS and XKM (Kitchen Management) systems by Xenial/Global Payments, used by global chains across restaurants, retail, automotive, cruises and events.
- Stack: Angular 20 + TypeScript + SQLite (POS) and Vue 3 + Electron (XKM); contributed to the cashless (payment) integration.
- Automated testing (Jest, Playwright), hotfixes, code reviews and multi-brand production support; Agile ceremonies (Jira, Slack).

Head of Electronics, Node.js & Frontend (React) Developer - SpringLabs / Octopy

Feb 2019 - Dec 2022 | Remote

Clients: Bimbo (Ricolino & Barcel), Nestle, Novo Nordisk, Telefonica, Intel (partner)

- Head of the Electronics area (after the rebrand to Octopy): led a team of 2 people, owning device design, protocols and deliverables.
- Contributed to the project awarded Intel Partner of the Year #1 in AI (Intel Partner Connect, May 2020). Reference: <https://amiti.org.mx/en/1390/springlabs-se-destaco-como-partner-of-the-year-1-en-inteligencia-artificial-en-el-intel-partner-connect-de-mayo-2020/>
- Designed, built and programmed autonomous vending robots with an embedded management dashboard for Bimbo, Nestle and Novo Nordisk (firmware + electronics + software).
- Ricolino and Barcel robots showcased at Plaza Galerias Toluca as a Bimbo innovation project.
- Built internal Node.js chatbots for Telefonica: meetings management, time tracking and employee check-in/out.

- React UIs (including a real-time interface for an autonomous system via Socket.IO); hardware integration with ROS, C++ and Python, PCB (Eagle) and RVIZ/Gazebo simulation.

Earlier Experience - Biomedical Engineering & Electronics

2015 - 2019

- Junior Researcher, CIR "Dr. Hideyo Noguchi" (2017-2019): CAD prototyping, biomedical instrumentation, circuit/PCB design, SMD soldering and additive manufacturing.
- Service Engineer, Biomedical Engineering (2016-2017): preventive/predictive/corrective maintenance of medical equipment and hospital certification protocols (Cancun).

HIGHLIGHTED PROJECTS

- Autonomous vending robots (Bimbo, Ricolino & Barcel) - Mechatronic design, electronics, firmware and embedded dashboard; linked to the Intel Partner of the Year #1 in AI (2020) recognition. Demo: <https://lnkd.in/p/eCaBYe8x>
- ORTESISCODO (thesis) - Active elbow-rehabilitation orthosis via additive manufacturing: embedded firmware (sensors + actuators) + Bluetooth configuration app in LabVIEW.
- Agenda Inteligente - Full-stack app with React 19 + Vite + TailwindCSS and Express + MongoDB, with OpenAI, Google Gemini and OCR (Tesseract.js). Live app: <https://agenda-inteligente-b34e7.web.app/dashboard>
- Tech Showcase - Spec-driven monorepo (Next.js, Angular, Vue, Express, Flask, PostgreSQL, SQLite, Docker). Demos: <https://showcase-live-seven.vercel.app/> | Source: <https://github.com/daniel-fausto/tech-showcase>

EDUCATION

B.Sc. in Biomedical Engineering - Universidad Modelo

2012 - 2016

- Thesis: active elbow-rehabilitation orthosis manufactured via additive manufacturing (firmware + software + prototype).

CERTIFICATIONS

Python, TypeScript, Advanced TypeScript - Platzi, 2022

Database Fundamentals, Node.js, Backend REST API (Express), PostgreSQL - Platzi, 2022

Salesforce Trailblazer - Salesforce, 2023 (<https://trailblazer.me/id/dfaustofranco1>)

LANGUAGES & SOFT SKILLS

Languages: Spanish (Native), English (B2), French (Basic/A2)

Soft skills: Leadership (team of 2), Communication, Self-management, Self-learning, Resilience, Teamwork