JAVIER FERNANDEZ

IOT & MECHATRONICS ENGINEER SPECIALIZED IN EMBEDDED DEVELOPMENT AND INDUSTRY 4.0

- Management skills
- Quick learning
- Teamwork
- Creativity

CONTACT ME

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TECH SKILLS

PYTHON · C/C++ · SQL · LINUX · UI/UX · SOLIDWORKS · SCRUM · GIT · 3D PRNT · PCB · MATLAB

LANGUAGES

English
Spanish
French
Romanian
German

HOBBIES

HIKING · PHOTOGRAPHY · READING · YOGA · COOKING · MUSIC · CALISTHENICS · DIY

WORK EXPERIENCE

R&D Engineer
IMT Atlantique — Feb 2024 - Present — France

- Laboratory focused on accelerating SCHC development.
- ➡ Open source publication and integration projects.
- ✔ New feature implementation and standardization collab.; raised awareness among industrials and academics.
- 🔧 C/C++, Python, STM32, LoRaWAN, 4G/5G, SCHC.

Consulting Engineer
Freelance — May 2021 - Jan 2023 — Colombia

- Improvement opportunity for data acquisition project.
- ➡ Interface redesign, code optimization & technical support.
- ✔ Boosted solution performance and improved data fidelity.
- 🔧 Ignition 8, Python, UX/UI analysis and design.

Mechatronics Engineer
BANGRoute — May 2021 - Feb 2022 — Romania

- Innovative guidance system for urban bicycle commuting.
- ➡ Embedded development and solution prototyping.
- ✔ Final working prototype ready for fund-raiser launch.
- 🔧 ESP32, nRF52840, Zephyr RTOS, BLE, 3D printing.

Project Engineer
ECON Tech Automation — Sep 2019 - May 2021 — Mexico

- Systems integrator in automation for Industry 4.0 growth.
- ➡ Automation project development across mutiple sectors.
- ✔ Digital transformation; Ignition 8 Gold Certification.
- 🔧 Ignition 8, TIA Portal, Solidworks, industrial-grade equip.

EDUCATION

MSc in Architecture and Engineering for IoT
IMT Atlantique — Feb 2022 - Dec 2023 — France

- Followed courses: Networks and Communications for IoT, Cryptography, AI for Embedded Systems, 4G/5G.
- Research project for IoT communications and security in collaboration with Universidad de Murcia.
- Internship: Work on UWB and BLE communications Performance (*STMicroelectronics*).

Mechatronics Engineering
Universidad Autónoma de Nuevo León — Aug 2013 - Jul 2019 — Mexico

- Followed courses: Analog and Digital Electronics, Sensors and Actuators, Embedded Systems, Automation.
- Intelligent Machines specialization.
- Internship: New Product Introduction Engineer Intern (**3M**).

Mechanical & Automation Eng.
INSA Rennes — Sep 2017 - May 2018 — France

- International exchange: Environment | R&D projects collab.