

FELIPE DIOGO

Azambuja - Portugal

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🌐 Personal Website: 0xfelipeg.github.io

Education

Federal Institute of São Paulo

Bachelor of Control and Automation Engineering

Jan. 2019 – Dec 2023

São José dos Campos, São Paulo

Relevant Coursework

- PLC and SCADA Programming
- Electric Vehicles
- 3D Modeling Software

- Web Development
- TI/TO Integration
- Product Development

- Special Machines
- Full Electrical Projects
- Python and IT Technologies

Experience

Startup, Movewer Technologies

Jun 2025 – Present

Founder — Engineer

Portugal

- Full technical development of UGV (Unmanned Ground Vehicle) systems (control systems, power systems, communication systems, remote control stations, sensor integrations).
- Developed a Monitoring Platform using MQTT, Python, Node-Red, InfluxDB and Grafana, integrating with AI to present insights beyond the sensor data.
- Collaborated with a mechanical specialist to adapt UGV projects and systems to meet predetermined requirements.

Startup, Psyche AeroSpace

Jun 2024 – Jun 2025

Automation Executive Manager

São Paulo, Brazil

- Structured the Automation and UGV sectors from the ground and delivered real value to the company, contributing to new fundraising rounds.
- Managed a team of five engineers in the development of agricultural vehicles and intelligent drone support structures.
- Led and executed key systems of UGVs development (control, power and communication), collaborating closely with mechanical and electronics teams.
- Participated in strategic business decisions, assisting budget and time optimization.
- Project planning to ensure successful completion of multiple engineering projects on time and within budget.
- Development of a 10 kg-payload quadcopter drone—from project planning to electrical and mechanical projects, including control and communication systems—following established requirements.

Automation Company, Controvale

Jun 2018 – Jun 2024

Automation and Application Junior Engineer

São Paulo, Brazil

- Development of special industrial machines involving mechatronic and IOT systems with SCADA and industrial standards.
- Distributor of automation products in Brazil (Siemens, Wecon, Bosch, Kinko, Rockwell). Developed commercial partnerships with 35+ companies.

Projects

MOV PLATAFORM | IT Technologies, VPS Deployment, MQTT, IOT Solution, Grafana, Node-Red

January 2026

- Full development of a Monitoring Platform focus on providing Insights using AI and field signals. Uses a Raspberry Pi running Node-Red as a Edge node to provide field signals to platform. Pipeline developed using Temporal Databases (InfluxDB) and Grafana as Dashboard. More info: 0xfelipeg.github.io

HIGH PAYLOAD UGV | Rover Development, Modularization, Power and Control System

August 2025

- Full development of a 1200kg payload UGV (Armax) for my startup with assistance from a mechanical specialist. Project ready-to-build with all documentation, performance studies, and commercial analyses completed.

More info: movewertechnologies.com

AGRO DRONE | Drone Development, Quadcopter, Medium Payload Drone

April 2025

- Full development of a medium-payload agricultural quadcopter drone, following requirements and staying within budget.

More info: 0xfelipeg.github.io

DRONE ASSISTANCE BASE | Distributed Systems, Process Plant, Drone Assistance

December 2024

- Full development of a drone-assist complex designed to support high-payload agricultural drone operations. The system provides automated refueling, energy management, process assistance, and an intelligent central control hub. The project establishes an end-to-end operational support platform with fully automated workflows driven by field intelligence.

More info: 0xfelipeg.github.io

Technical Skills

Engineering: Control systems, power electronics, embedded systems, communication protocols (Modbus, LoRa, OPC-UA, EtherCAT, Profinet), SCADA, HMI interfaces, Git and GitHub, industrial programming, AI integrations, IOT, Monitoring, Cloud, Databases, MQTT

Software: Linux OS, Web Development(JS/TS),Python

Tools: Indusoft, Eagle, GX Works , SolidWorks, EPLAN, AutoCAD, MATLAB, CODESYS, TIA Portal, N8N, PowerBI, Node-Red, Grafana, Mosquitto, InfluxDB, Raspberry Pi, Jetson Nano Orion

Management and Team Work: Scrum, Kanban, Jira, Version Control

Extracurricular

Dual Career Professional

2025 – Present

Software Developer and Automation/Robotics Engineer

- Parallel careers as an engineer and software developer.
- Developing Web Solutions and Softwares in free time.

Startup Founder

2025 – Present

Movewer Technologies

- Founder of a Tech Startup, developing software and hardware related with 4.0 Industry and UGVs (unmanned ground vehicles).