

# FELIPE DIOGO

Portugal

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## 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).
- Development of 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: [0xfelipegd.github.io](https://0xfelipegd.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](https://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: [0xfelipegd.github.io](https://0xfelipegd.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: [0xfelipegd.github.io](https://0xfelipegd.github.io)*

## Technical Skills

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**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

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### 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).