

FELIPE DIOGO

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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
- Web Development
- NextJs

- Project Management
- Version Control
- Product Development

- AI Integration
- VPS Deployment
- CI/CD

Experience

Startup, Movewer Technologies

Jun 2025 – Present

Founder — Development Engineer

Portugal

- Full technical development of UGV (Unmanned Ground Vehicle) systems (control systems, power systems, communication systems, remote control stations, sensor integrations).
- Development a Web 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.

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.

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](https://0xfelipeg.github.io)

NEXTJS WEB APP | Version Control, TypeScript, Frameworks, Authentication

December 2025

- Simple developments during studies [More info: 0xfelipeg.github.io](https://0xfelipeg.github.io)

FIFA WORLD CUP 2030 SIMULATOR | JavaScript, HTML, CSS

September 2025

- Simple development of a Simulator for FIFA World Cup 2030 during studies [More info: 0xfelipeg.github.io](https://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](http://movewertechnologies.com)

Technical Skills

Engineering: Control systems, embedded systems, communication protocols (Modbus, LoRa, OPC-UA, EtherCAT, Profinet), Git and GitHub, industrial 4.0 programming, AI integrations, IOT, Monitoring, Cloud, Databases, MQTT

Tools and Softwares: NextJs, Docker, AI MCPs, ,JavaScript, TypeScript, Python, Versel, React, Github Copilot, MongoDB, SQL,noSQL,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.

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).