

David Bensoussan **Software Engineer** specialized in robotics, devops and systems

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"A true leader is one who knows the way, goes the way, and shows the way."

John C. Maxwell

I integrate new and established technologies in robotics, IoT, and cloud to deliver dependable systems for remote and on-site teams.

At Bender Smart Charging, I drive the **Buildroot/C++/Rust monorepo** migration, rebuilt CI/CD to reach 95% pipeline reliability, added **VSEM + Grafana** visibility, and authored **Python hardware-test APIs** so 70+ engineers can ship EV chargers confidently.

Earlier, as a co-founder of Brisa Robótica, I led six engineers to turn industrial machines into autonomous fleets with ROS data platforms, dashboards, and customer tooling.

I'm currently delivering at Bender Smart Charging while remaining open to new opportunities in Hamburg or remotely.

Experiences

Bender Smart Charging GmbH

July 2023 -> Now – Full time – Full remote – Hamburg, Germany

DevOps engineer for EV charging platform modernization

- **Unified every Buildroot/C/C++/Rust/Java repo into a single monorepo** while keeping release history intact.
Git, Buildroot, Cargo
- **Ran new releases on hardened on-prem GitLab runners and kept legacy Buildbot builders for old branches**, hitting 95% pass rates and cutting pipelines from 4h to 15m.
GitLab CI, Buildbot, Buildroot, runners, caching
- **Instrumented VSEM pipeline views with Grafana alerting** so engineers spot bottlenecks and flakes before releases slip.
VSEM, Grafana, PostgreSQL
- **Built a Python client API for charger hardware tests**, enabling scripted acceptance and regression suites end-to-end.
Python, pytest, Pydantic, hardware APIs
- **Moved legacy services to Linode Kubernetes** so distributed teams deploy deterministically with less ops toil.
Linode, Kubernetes, Helm
- **Centralized binaries, firmware, and containers in VPN-backed Artifactory** for secure retention and reproducible builds.
Artifactory, VPN

Brisa Robótica

October 2019 -> April 2023 – Full time – Recife, Brazil and Hamburg, Germany

Co-founding a 6M\$ US Brazilian robotics startup with a team of 10 people from scratch

- **Defined and pivoted business and sales strategy** with cofounder during COVID-19 pandemic.
- Overcame technical challenges: **reverse-engineered 2 forklifts and a pallet-jack** and created a universal data platform.
- Created a **modular data collection framework** for autonomous robotics solutions used in 4 projects.
ROS1,2, Fluent Bit, C++, Go, C, data collection, On-premise, AWS, Docker, Git Actions, Python, MinIO, PostgreSQL, MQTT
- Developed **4 dashboards for autonomous robotics solutions**: backend, frontend, public API and documentation.
On-premise, AWS, API development, Flask, FastAPI, Bash, CI, CD, Docker, Git Actions, Python, PostgreSQL, ROS1,2
- Identified growth opportunities with clients and optimized KPIs with tailored data solutions, **yielding to 30% improvement**.
- Crafted **2 websites** and produced **marketing materials**: videos and social media content.
- Wrote an article published in the [AWS Robotics Blog](#).
- Fundraising detailed in [Empresas e Negócios](#), one of the most important newspapers in Brazil.
- Achievements reported in [SC inova](#), the most important newspaper in Santa Catarina, heart of the industry in Brazil.

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Synapticon

March 2015 -> October 2019 – Full time – Stuttgart, Germany

Full stack robotics for an autonomous lawnmower targeting the consumer market

Continuous integration and testing for robot and hardware

- Implemented software for **localization, navigation and motor control boards**. Automated **acceptance test reports** and tracked requirements.
Python, pytest, ROS1, Redmine, cartographer, openhtf, static analysis, sphinx, TDD
- **Released 15 applications and libraries** for XMOS multicore chips, including sensor data acquisition and motor control. Refactored code to reduce memory usage by 25%.
XC (close to C), C, I2C, SPI, TDD, UART
- **Crafted and optimized embedded Linux distros**, for real-time capabilities on robotics software stacks, achieving sub-6 sec boot times. Debugged and optimized software libraries for arm64.
Yocto, Linux, AWS, cross compiling(arm/arm64), arm64, Bash, beaglebone, cmake, Docker, raspberrypi, real-time, systemd
- Designed CI/CD pipelines with **hardware-in-the-loop**, automated processes, QA for 4 projects, mentored interns.
Python, pytest, On-premise, CI, CD, Docker, Git, Jenkins, Bash

Freelancing

October 2017 -> October 2018 – Part time

Devops Manager / Linux and ROS development

- Delivered pipelines and containerized applications for clients remotely, mostly devops topics, hourly and contract based.
- **Implemented CI/CD processes**, containerized 100-ish applications, providing robust development environments.
- Troubleshooted ROS software, packaged ROS applications in containers.
ROS1, AWS, autoscaling, Docker, Hetzner, Jenkins, remote

Open Source

ROS 2 Data Collection Framework: Integrated ROS 2 data pipelines for analytics, not live monitoring. Collect, validate, and send data to create APIs and dashboards.

ROS 2, C++, Fluent Bit, C, Go, Python, Gazebo, Markdown documentation, Github actions, Docker

Gazebo world to ROS 2D Map plugin: Convert a Gazebo world environment to a 2D map in seconds for nav2 map server. Helps to avoid robot exploration and redoing mapping.

ROS 2, Gazebo, C++

Pre-commit hooks for ROS 2: Enhance ROS 2 workflow by implementing pre-commit hooks to ensure metadata is set and versions are consistent across all packages before release.

Python, Bash, ROS 2

Languages

French: Native

English: Professional proficiency

German: Conversational

Brazilian portuguese: Conversational

Education

ESIEA

2010 - 2015

Graduate school of Engineering – Master of Science

Embedded systems major, 3 years in robotics student organization.

Interests

Cooking traditional food: I love sharing my cultural heritage and bringing people together through the delicious flavors and aromas of my traditional dishes.

Hiking: Exploring trails, challenging myself, and immersing in nature's beauty.

Learning languages: I enjoy exploring new cultures and connecting with people through learning their language.