

# DAVID ROBERTS STEAGALL



## CONTACT INFORMATION

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■ Rio de Janeiro, RJ  
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## SKILLS

### Databases

- SQL
- PostgreSQL
- Trino / PrestoSQL
- Redis

### Dashboards & BI

- Metabase
- Power BI
- Grafana
- Tableau

### Data Science

- Python
- Pandas
- Machine Learning
- LLM / GenAI

### Computer Vision

- Computer Vision
- OpenCV

### Data Engineering

- PySpark
- Databricks
- AWS
- Cognite Data Fusion

### Development

- FastAPI
- Git

### DevOps / Infra

- Linux
- Nginx
- RabbitMQ

### Hardware

- 3D Printing (FDM & resin)
- Combat Robotics
- Arduino / Microcontrollers
- Raspberry Pi
- Jetson
- ESP32
- STM32
- Embedded Electronics
- Mechanical Design · Blender · SolidWorks

## LANGUAGES

**Portuguese** | Native

**English** | Advanced

**Spanish** | Intermediate

**German** | Basic

## INTRODUCTION

Control & Automation Engineer specialising in data, artificial intelligence, and competitive robotics. Over more than eight years of career, he has worked across AI startups, insurtechs, and edtechs, delivering end-to-end solutions — from ingestion pipelines and predictive models to production-ready business dashboards. He brings an uncommon background combining deep expertise in data engineering and data science with hands-on skills in electronics, mechanics, and embedded systems — resulting in a complete engineering mindset capable of going from hardware to data to product.

## EXPERIENCE

### SENIOR DATA ANALYST

*Medway · EdTech. Rio de Janeiro | Oct 2024 – Present*

- Architected and evolved a B2B analytics solution, serving managers at approximately 15 partner universities with engagement and academic-performance data.
- Drastically reduced operational costs and query latency of the analytics infrastructure, enabling new production use cases.
- Hybrid role as data analyst and data engineer — end-to-end delivery of ingestion pipelines, schema synchronisation, and dashboards.

### SENIOR DATA ENGINEER

*Radix Engenharia · Consulting. Rio de Janeiro | Jan – Sep 2024*

- Integrated and structured industrial IIoT data for a Fortune 500 petrochemical client (Celanese) — real-time operational monitoring via Cognite Data Fusion.

### DATA ENGINEER

*Akad Seguros · InsurTech. Remote | Jan 2022 – May 2023*

- Developed an AI-powered automation pipeline for insurance issuance — directly contributed to significant sales growth, recognised with a national award (Revista Apólice, Jan 2024).
- Built predictive models and data pipelines for risk analysis, market trend forecasting, and strategic decision support.

### DATA SCIENTIST

*CyberLabs · AI Startup. Rio de Janeiro | Dec 2017 – Jan 2022*

- Created the Rio de Janeiro Social Isolation Index during the pandemic — adopted as an official indicator by the Municipal Government, with hundreds of national media mentions.
- Worked on multisectoral AI and computer vision projects (retail, public health, insurtech, and cybersecurity) at a startup that raised R\$ 28 M via Redpoint ventures.
- Joined the company as a founding member after graduation; participated in its expansion into the Akad Seguros and PSafe verticals.

### 3D PRINTING COORDINATOR

*CyberLabs. Rio de Janeiro | Dec 2017 – Apr 2018*

- Coordinated construction of the open-source InMoov humanoid robot (Gaël Langevin), integrating 3D printing, electronics, and computer vision for public interaction — a pioneer interactive-AI project in Brazil in 2017.

### ROBOT BUILDER

*RioBotz · PUC-Rio. Rio de Janeiro | 2012 – 2017*

- Design and construction of combat robots across multiple weight classes (1, 5, 15, 60, and 115 kg) — mechanical structure, embedded electronics, and systems integration.
- Competed nationally and internationally: RoboCup, Robogames, Winter Challenge and others, accumulating over 30 awards throughout the team's history.

### ROBOT BUILDER

*RioBotz / BattleBots. Las Vegas · IIT Bombay | 2021 – 2025*

- Competed in 2 seasons of the international TV show BattleBots (Las Vegas) as part of team RioBotz — a globally competitive, high-level combat robotics competition.
- Champion at TechFest IIT Bombay in 2022 and 2023 with robots across multiple weight classes, representing Brazil in a high-level international competition · riobotz.com/robots

### TEACHING ASSISTANT (3 DISCIPLINES)

*PUC-Rio. Rio de Janeiro | 2015 – 2018*

- Pedagogical support in practical labs, project guidance, and assignment grading in Control & Automation, Electrical Engineering, and Mechanical Engineering.

### VOLUNTEER STAFF

*AFS. Macaé*

- Support for events and community activities.

## EDUCATION

### B.Sc. in Control & Automation Engineering

*Pontifical Catholic University of Rio de Janeiro (PUC-Rio) · 2018*

### High School

*Rudolf-Hildebrand-Gymnasium · Stendal, Germany*

### Elementary School

*Escola Alfa · Macaé, RJ*

## HONORS & AWARDS

- Akad Seguros Award (2024) — AI automation recognised for driving significant growth in bike-insurance sales · Revista Apólice, Jan 2024.
- Rio de Janeiro Social Isolation Index — created during the pandemic, adopted as an official indicator by the Municipal Government · hundreds of national media mentions.
- TechFest IIT Bombay Champion 2022 & 2023 · Over 30 international awards in robotics competitions representing Brazil · riobotz.com/robots