

Victor José Ferreira de Moraes

Brazilian, 25 Years Old | [Linkedin](#)
Brazil, Minas Gerais, Belo Horizonte, Ipê | Available for travel | CNH-B
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Undergraduate student. Electrical engineering and computer science. Determinated, curious, fascinated by technology, science, and product development. In constant search for new challenges and knowledge. I am also an electronics technician, Linux, and open-source enthusiast.

EXPERIENCE

Cadence Design Systems – *Software Engineer Intern*

From 04/2021 – currently – Belo Horizonte, Brazil
Development of internal tools related to DevOps and site reliability. Contribute to scaling productivity of R&D team by enhancing automated building, test regressions systems, general automations, benchmark tools, quality analytics. Enabled monitoring of KPIs and servers farm. **Tools and roles:** CI/CD, backend, Sysadmin on RHEL/CentOS, scripting, Python, Go, Docker, distributed systems (NFS, IBM LSF) on hybrid cloud, REST API, microservices, web development, CLI tools.

Enacom – *SWE Backend Dev. & Optimization Jr. Researcher*

From 01/2021 – currently – Belo Horizonte, Brazil
From 02/2020 – 12/2020 – SWE Intern

Development of simulators and optimization applied to industry 4.0 projects: **Industrial Planner** for optimal sequencing in steel production plant; **Operations Planner**: simulator and optimizer of railway logistics. **Tools and roles:** Python, Pandas, Flask, NumPy, Data analytics, AWS, Git, Test automation, Scrum.

Formula TeslaUFMG – *Hardware and Firmware Developer*

From 10/2017 to 02/2020 – Belo Horizonte, Brazil

Firmware (C/C++) and hardware development of embedded systems: Development of dynamic and powertrain controls unit (ECU); vehicle safety unit; automotive data networks; power controller SW; Electrical powertrain design; data acquisition SW & HW; Data analytics; Project management. Validation & debugging. Automotive engineering.

TeslaUFMG is a development team of high-performance electric vehicles. Won Second place overall in the engineering competition **Formula Student SAE** in 2018 and the best engineering project in 2019.

Somitec – *Controls Engineering Technician Intern*

From 08/2015 to 05/2016 – Belo Horizonte, Brazil

Building controls & automation system of hospital assets: ventilation, air conditioning, lighting, and energy systems.

EDUCATION

UFMG – *Electrical engineering, minor in Comp. Science*

From 2016 to 2022 – Belo Horizonte, Brazil – Federal University of Minas Gerais
Programming tutor (C/C++).

CEFET-MG – *Electronics technician degree*

From 2012 to 2014 – Belo Horizonte, Brazil

TECHNICAL SKILLS

Software Engineering:

Proficient with:

DevOps, Python, Linux, Databases, SQL, ElasticSearch, Algorithms, Data Structures, Object-oriented programming, C/C++, code version control, scripting, REST API, backend, Docker, Test/domain-driven development.

Familiar with: software architecture, AWS, Web development, cloud, compilers, hardware verification, Verilog.

Data Science:

Machine learning, Scikit, Tensorflow, statistics, NumPy, Pandas, Matplotlib, non-linear optimization.

Electrical Engineering:

Embedded systems, Automotive engineering, modeling/simulation (MATLAB, Simulink), controls, instrumentation, power electronics. Integration, PCB design, project management.

LANGUAGES

English – Fluent

CONGRESS

Workshop Lítio UFMG 2019: research and development (R&D), national economic opportunities of lithium technologies.

C-MOVE 2018: congress of mobility: electric and hybrid vehicles – São Paulo. Exhibitor.