Guilherme Silvino Gervilla

Date of birth: 23/07/2001 | **Place of birth:** Sorocaba, Brazil | **Nationality:** Brazilian, Spanish | **Gender:** Male | **Phone:** (+55) 15998227780 (Mobile) | **Email address:** Avellaguilherme@gmail.com | **Address:** Rua Boungainville 39, N 1, 18116746, Votorantim, Brazil (Home)

ABOUT MYSELF

Electrical Engineer that is passionate about programming

WORK EXPERIENCE

31/12/2023 - 01/06/2025 - SOROCABA, BRAZIL

ELECTRICAL ENGINEER QUICK ON

- Analyzed low-voltage and medium-voltage breaker panels for residential, commercial, and industrial applications.
- Interpreted electrical schematics and panel layouts to ensure accuracy and code compliance.
- Created detailed breaker panel drawings and layouts using AutoCAD.
- Updated and revised existing electrical drawings based on field data and engineer feedback.
- Assisted in verifying circuit labeling, load distribution, and coordination of protection devices.
- Supported engineers in preparing technical documentation for electrical panel upgrades.

01/02/2021 - 31/12/2023 - VOTORANTIM, BRAZIL

ELECTRICAL ENGINEER SOLARIS

- Assisted in the design and layout of photovoltaic (PV) systems using AutoCAD.
- Performed site assessments to evaluate solar exposure, shading, and roof structural integrity.
- Conducted load calculations and estimated energy production for residential and commercial systems.
- Supported electrical wiring, conduit routing, and inverter placement planning in compliance with local codes.
- Reviewed single-line diagrams and electrical schematics for accuracy and safety.
- Participated in system commissioning and troubleshooting of installed solar arrays.
- Collaborated with engineers and technicians to ensure proper grounding and surge protection.
- Assisted in preparing documentation for grid-tie applications and net metering agreements.
- Gained hands-on experience with inverters, charge controllers, and monitoring systems.

EDUCATION & TRAINING

31/10/2019 - 29/01/2025 - SOROCABA, BRAZIL

BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING- FACENS

Total workload: 4,440 hours

Admission via: **Vestibular (Brazilian college entrance exam)** – Score: 8.7/10.

Field(s) of study: Electricity and energy | **Final grade:** 6.7 / 10 | **Thesis:** Prevention and Control of Corona Effect in Electrical Substation Connectors (Prevenção e Controle do Efeito Corona em Conectores de Subestações Elétricas) | **Website:** https://facens.br/

30/08/2024 - 01/09/2024 - SOROCABA, BRAZIL

CERTIFICATE OF COMPLETION LEARNING PYTHON FOR DATA ANALYSIS AND VISUALIZATION- UDEMY

Comprehensive course focused on using Python for data manipulation, statistical analysis, and visualization.

Covered libraries such as Pandas, NumPy, Matplotlib, and Seaborn for creating clear and insightful data visualizations.

Website: https://www.udemy.com/

20/08/2023 - 22/08/2023 - SOROCABA, BRAZIL

CERTIFICATE OF ELECTRIC AND HYBRID VEHICLES- SENAI

Technical course on the principles of electric and hybrid vehicle operation. Topics included electric drivetrain components, battery technologies, energy efficiency, and power electronics applied to automotive systems.

Website: https://www.sp.senai.br/

01/01/2017 - 31/12/2019 - SOROCABA, BRAZIL

SECONDARY EDUCATION- COLÉGIO SALESIANO SÃO JOSÉ

Curriculum: General Secondary Education (Brazilian National Curriculum – Lei Federal Nº 9394/96)

Key Subjects: Mathematics, Physics, Chemistry, Biology, Portuguese Language and Literature, History, Geography, Sociology, English (LEM)

Final grade: 7.1 / 10 (approximate average across subjects) | **Website:** https://salesianosorocaba.com.br/

LANGUAGE SKILLS

Mother tongue(s): **PORTUGUESE**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C1
SPANISH	B2	A2	A2	A2	A1

SKILLS

Programming Languages
Programming basics: Python; C/C++; Rust | Python (computer programming) | C, C++c C# | Git | troubleshoot

Engineering
design electrical systems | Microsoft Excel | Microsoft Office | Microsoft Word | safety engineering | engineering processes | technical drawings | approve engineering design | design smart grids | abide by regulations on banned materials | control systems | electronic equipment standards

PROJECTS

01/01/2021 - CURRENT

Automation of Single-Line and Multi-Line Diagram Generation Automated the production of single-line and multi-line diagrams for electrical systems using custom software, only requiring filling an Excel sheet.

Tools/Technologies: AutoCAD, Python, electrical design tools.

Fully Functional Climate Monitoring Station (2023) Designed and built a climate monitoring station accessible through the internet, collecting and analyzing environmental data in real-time.

Tools/Technologies: ESP32, IoT (Internet of Things), C, Web development (HTML/CSS, JavaScript).

Robot for Water Quality and Temperature Monitoring in Lakes (2021) Developed a robot to monitor water temperature and quality in lakes, transmitting data to a central system.

Tools/Technologies: Arduino, sensors, robotics, wireless communication.

REFERENCES

Eng. William Jeismar

Position: Electrical Engineer – Supervisor

Relationship: Direct supervisor during employment at Quick On Engenharia e Projetos Elétricos LTDA

Email: engenharia@quickonelec.com

Prof. Dr. Heverton Bacca Sanches

Position: Coordinator, Electrical Engineering Program

Relationship: Professor and academic advisor during Bachelor's studies at Facens – Faculdade de Engenharia de Sorocaba

Email: heverton.sanches@facens.br