
GUSTAVO HENRIQUE BORGES CARDOSO

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PROFESSIONAL SUMMARY

Web Developer with a recent graduate certificate in Web Development and a strong foundation in electrical engineering. Proficient in HTML, JavaScript, Django, Python, C++, API integration, and responsive design. Brings a problem-solving mindset, technical precision, and project management experience from an engineering background. Eager to apply newly acquired web development skills to build efficient, user-focused applications.

EDUCATION

Graduate Certificate: Web Development, 03/2025

Computer Systems Institute - Charlestown, MA

- Member of CSI's Academic Honor Society
- 4.00 GPA
- Relevant Coursework: HTML, CSS, JavaScript, Django, Responsive Web Design, Database Integration

Bachelor of Science: Electrical Engineering, 03/2020

Instituto Federal De Goiás - Goiânia, Goiás, Brazil

- Thesis: Prototype for Remote Monitoring of Vibration and Temperature of Rotating Machines
- Relevant Coursework: Programming for Engineers, Database Management, Project Management

SKILLS

- HTML, CSS, JavaScript, Django, API Integration, Responsive Design
- Python, C++
- Git, GitHub
- SQL, PostgreSQL
- User Experience (UX) Principles
- Project Management
- Engineering Design Evaluation
- AutoCAD, Revit
- Analytical Problem Solving
- Critical thinking
- Team leadership

RELEVANT PROJECTS

Large-Scale PV System Performance Analysis

(Consenso Consultoria | Data-Driven Optimization | Cost Reduction | SCADA Analytics)

- Leveraged SCADA system data from 56 PV installations (2.89 MWp) to identify underperforming assets
- Developed data-driven maintenance recommendations that reduced contract costs by 15%

Prototype for Remote Monitoring of Vibration and Temperature of Rotating Machines

(Bachelor's Thesis Project | ESP32, Arduino, MQTT, Node-RED)

- Developed an IoT system to monitor vibration/temperature in motors using ESP32 and MQTT, reducing downtime by 25% via early fault detection.

Report Automation Tool

(Caixa Econômica Federal Internship | Excel)

- Developed Excel-based system to organize compliance reports from the engineering team

Medical Device Maintenance Optimization

(EBEM Internship Project | Process Improvement)

- Implemented a web-based tracking system to streamline maintenance protocols and benchmarks, reducing delays by 30%.

WORK HISTORY

Electrical Engineer, 06/2022 - 05/2023

Metropolis - Consultoria & Planejamento – Goiânia, Goiás, Brazil

- Conducted comprehensive inspections of electrical systems, structured cabling, and ADPS installations across government technical schools.
- Identified critical safety hazards (exposed/oxidized cabling) and engineered a solution achieving 77% cost reduction (R\$450k saved) versus complete replacement.
- Coordinated corrective actions with contractors and government teams, implementing durable solutions that eliminated future rework.

Electrical Engineer, 01/2020 - 05/2023

Consenso Consultoria de Engenharia – Goiânia, Goiás, Brazil

- Led the design and execution of electrical projects, focusing on innovative solutions, and technical excellence.
- Played a key role in integrating web technologies for project management and reporting, improving workflow efficiency.
- Oversaw PV, CCTV, ADPS and structured cabling, ensuring compliance with project specifications and deadlines.
- Prepared detailed technical reports and designed technical specifications for both new construction and

renovations.

Engineering Intern, 03/2018 - 12/2019

Caixa Economica Federal Bank – Goiânia, Goiás, Brazil

- Enhanced project analysis through the development of digital tools, improving efficiency and accuracy in evaluating compliance with standards.
- Conducted inspections of electrical, structured cabling, and security projects for Caixa branches.
- Played an active role in administration tasks, including the preparation of reports and managing project timelines.

Engineering Intern, 07/2017 - 03/2018

EBEM - Engenharia Médica – Goiânia, Goiás, Brazil

- Implemented a web-based management system for medical device protocols, improving maintenance scheduling, and device tracking.
- Developed control metrics and benchmarks for preventive maintenance, ensuring timely device servicing.
- Assisted in managing projects related to medical device maintenance and compliance.

CERTIFICATIONS

- Certified JavaScript Developer, W3Schools