

CONTACT INFORMATION:



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https://gabriel-aleman.github.io/my_cv/

Gabriel de Jesús Alemán Ruiz

BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING

SOFT SKILLS

- **Problem Solving:** Analytical thinking and creative solutions to complex challenges.
- **Teamwork:** Effective collaboration in multidisciplinary and diverse teams.
- **Work Ethic:** Reliable, persistent, and quality-focused under pressure.
- **Continuous Learning:** Motivated to stay updated with new technologies and trends.

TECHNICAL SKILLS:

- **Electronics:** Solid knowledge of electronic principles and applications.
- **Integrated Circuit Design:** Experience in digital design, testing, and synthesis using Verilog and open-source tools such as Vivado and GTKWave.
- **Computer networks:** Understanding of network topology design, configuration, and maintenance, including TCP/IP protocols.
- **Automation:** Hands-on experience with programmable logic controllers (PLCs), sensors, and actuators, with a focus on industrial automation systems.
- **HMI & SCADA Development:** Skilled in designing industrial interfaces and data visualization systems using advanced software tools such as Ignition (by Inductive Automation).
- **Programming Languages:** Proficient in Python, C++, C, and MATLAB for scientific, engineering, and automation-related applications.
- **Front-End Development:** Familiar with HTML and CSS for web interface development.
- **Databases:** Skilled in SQL for data management and querying.
- **Data Science:** Experience with data analysis and visualization libraries and frameworks (NumPy, Pandas, Matplotlib, Plotly, Seaborn, Streamlit, Dash, etc...).
- **Version Control:** Proficient in Git and GitHub for code management and collaborative development.
- **Embedded Systems:** Experience with microcontrollers, low-level programming, GPIO handling, interrupt-driven design, and integration of peripherals.

LANGUAGES SKILLS:

- **Spanish:** Native speaker
- **English:** Advanced (TOEFL score: 93)
- **Japanese:** Intermediate (JLPT N4 certified)

ABOUT MYSELF

I hold a Bachelor's degree in Electrical Engineering from the University of Costa Rica, having graduated with an emphasis on the field of computers and networks. I am deeply passionate about science and various fields within information technology.

My interests include areas such as industrial automation, embedded systems, web development, data analysis, and artificial intelligence—technologies that I believe are shaping the future.

I value continuous learning and am always eager to expand my knowledge and skills across different areas.

My main professional objective is to apply science and technology in the design of impactful solutions that address real-world challenges and foster the improvement of human well-being.

WORK EXPERIENCE:



Internship as a data analyst

Sporting Football Club
2024

Development of a web-based data application for sports analytics. Implementation of visualization tools and information processing to optimize team performance and strategic decision-making.



Project engineer

Sistemas IQ
2024 - present

Tasks focused on the area of industrial control and automation. Mainly centered on the development of graphical user interfaces (HMI) and Supervisory Control and Data Acquisition (SCADAs), industrial network maintenance, as well as installation and configuration of industrial hardware.

EDUCATION:

- **Bachelor's Degree in Electrical Engineering:**
University of Costa Rica (2019-2024)
- **Licentiate Degree in Electrical Engineering (student):**
University of Costa Rica (2024-now)
- **Specialization in web design:**
Fidelitas university (2025 - now)