

# Leonardo Marques

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## EDUCATION

**Federal University of Santa Catarina (UFSC)**

**Aug 2023 - Present**

**Bachelor's Degree in Computer Science**

**Federal Institute of Santa Catarina (IFSC)**

**Jul 2019 - Jul 2023**

**Technician's Degree in Electrotechnics**

- Honors/Academic recognition: Highest GPA of the course (GPA: 9.8)

## EXPERIENCE

**ECL (Embedded Computing Laboratory) - UFSC, Florianópolis, Brazil**

**Apr 2025 - Present**

**Undergraduate Researcher (CNPq)**

- Research focuses on architectures and algorithms for the compression of immersive systems (light fields).

**Aprova Total - Florianópolis, Santa Catarina, Brazil**

**Feb 2024 - Apr 2025**

**Information Technology Intern**

- Developed software using React.js, JavaScript, TypeScript, and Tailwind.
- Worked on data science and analysis projects using Python, Pandas, Numpy, MongoDB, and Looker Studio.
- Created automations in Python integrating with Zoom, Vimeo, ActiveCampaign, MongoDB, and Jira.

**Energiluz Engenharia (Energiluz Engineering) - São José, Santa Catarina, Brazil**

**Jul 2022 - Jun 2023**

Energiluz Engenharia is a Brazilian company focused on providing electrical engineering assistance, especially concerning public lighting issues through the government of the state of Santa Catarina.

**Electrical Engineering Intern**

- I worked in the Engineering department and my main responsibility was to create the electrical projects, with AutoCAD and Dialux, for the maintenance team. In these projects, I specified which poles were to receive determined lighting fixtures.
- I was also responsible for testing the lamps to determine the best fit for each project, considering factors such as power factor, voltage drop, and other electrical characteristics.

**Federal Institute of Santa Catarina - Florianópolis, Santa Catarina, Brazil**

**Jun 2021 - Mar 2022**

**Teaching Assistant of Chemistry**

- I worked as a Teaching Assistant in the Department of Language, Technology, Education and Science (DALTEC) at IFSC, where my responsibilities included teaching Chemistry in the context of Olympiad fields.
- I specifically worked with the final high school courses at the Institute, concentrating on the Catarinense Chemistry Olympiad (OCQ) and the Brazilian Chemistry Olympiad (OBQ).

## ACADEMIC PROJECTS

**The Sequences Game - Grade: A+**

**Dec - 2023**

- This project was developed for the Digital Circuits class (UFSC) and involves a game coded in VHDL that can be played on an FPGA board by two players.
- Given two parameters by the first player, a sequence of four numerical values is displayed. The second player needs to set the FPGA's switches to match the fifth value of the sequence. Depending on the chosen game level, an incorrect match will result in a loss of points.

**Playlist Generator - Grade: A+**

**Nov - 2023**

- This project was developed for the Object-Oriented Programming class (UFSC). Its primary objective is to generate a Spotify playlist based on a specified number of songs with chosen artists.

## ADDITIONAL

- Technical Skills: Python, Java, Javascript, C, C++ and VHDL.
- Language Skills: English (Advanced), Portuguese (Native) and Spanish (Conversational).
- Awards: Silver medal winner of the Mathematics Olympiad of the Federal Institutions and of the Brazilian Mathematics Olympiad.