

# PAULO FYLIPPE SELL | RESUME

**Status:** Telecommunications Engineer

**Fields:** Embedded Systems, Software Development, Signal Processing

**Techs:** Python, C++, Java, Matlab, Git, VHDL

**Activities:** Games, Reading, Coding, Investing

Santa Catarina, Brazil

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## Summary

25 years old telecommunications engineer based in Santa Catarina, Brazil. I studied at the Federal Institute of Santa Catarina and my bachelor's thesis was the development of a framework for secure and reliable firmware update for embedded devices. Currently I'm working at the Embedded and Distributed Systems Laboratory at IFSC, developing the specification and the proof of concept of an embedded low-cost secure fiscal authorizing device for the state of Santa Catarina.

## Experience

**Software Developer / Reseacher** - Federal Institute of Santa Catarina

2021 - present

- Development of the specification and the proof of concept of an embedded low-cost secure fiscal authorizing device for the state of Santa Catarina
- Mostly used C++ and Python

**IT Analyst** - Internship at NSC TV

2017 - 2018

- Solving thecnical issues
- Projecting improvements on the network infrastructure

## Education

**Graduated as Telecommunications Engineer** - Federal Institute of Santa Catarina

2015 - 2021

- Bachelor's Thesis: Secure and Reliable Firmware Update
- Developed a framework for secure and reliable firmware update for embedded devices

## Academic Experience

**Research Student** - Federal Institute of Santa Catarina

2020 - 2021

- Development of the specification and the proof of concept of an embedded low-cost secure fiscal authorizing device for the state of Santa Catarina

**Research Student** - Federal Institute of Santa Catarina

2019 - 2019

- Worked as a research student from the LaSED (Embedded and Distributed Systems Laboratory) under the supervision of Dr. Roberto de Matos
- Develop of a DSP block of a MDCT (Modified Discrete Cosine Transform)
- Mostly used MatLab

**Academic Tutor** - Federal Institute of Santa Catarina

2018 - 2019

- Tutor of electric circuits disciplines

## Fields of Knowledge

- Wireless communication, RF, protocol design, electric circuits, telecommunication systems, embedded devices, distributed systems.