Valentino Carneiro

Personal Data

Languages	Portuguese (Natural), English (Written and spoken)
Age	21, Male
Location	Porto, Portugal
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Github:	https://github.com/xvalme

Education

until 07/2024	Bachelor of Electrical and Computer Engineering at **FEUP** with an average of **18** (out of 20)
until 06/2021	Secondary school, with an average of [redacted]

Past Experience

5/2023 - ?	Research Assistant at **INESC TEC**, Porto - In charge of developing a Network Analyzer (NA) for measurements in the S-Band.

Achievements and projects

Winner of an **undergraduate scholarship** awarded by the **IEEE Microwave Theory and Technology Society** (MTT-S) in 2024. The scholarship recognized achievements and academic excellence in the field of microwave engineering.

Winner of a **honorable mention** in the National scientific contest **"Jovens cientistas"**, by Ciência Viva, in the Physics field: *(Re) Calculation of the Milky Way's rotation speed using the hydrogen line*. The project involved the building of a radio-telescope, and a RF system to filter, amplify and process the 1420-ish Mhz signal.

Designed, Documented, Soldered and Tested my LNA boards and BIAS-Tees to receive satellite images in the VHF band using a V-dipole antenna, successfully. Built several antennas as a hobby for different frequencies, namely dipoles, discones and helices.

Even before having a computer architecture class, wrote an ARM LegV8 CPU simulator in Verilog, tested with Icarus and test benches.

In the software area, created an open source digital book reader, called AbsolutReader, with text analysis and PDF editing, available on the playstore until 2024. Its functionality consists of helping the reader to remember characters or topics more easily, through images.

Maker by nature. Many small projects of electronics, but also some bigger ones, like a Chess Board With Voice Commands, that played movements with voice input and stepper motors.

Technical Skills

Design of PCBs for radio frequencies, including filters, amplifiers and even controllers.

Knowledge of laboratory equipment, and their best-practices (VNA, Signal Generator, Spectrum Analyzer, etc).

As programming languages, Python, C, Javascript (NodeJs), Assembly, Verilog and SQL.

Knowledge of design and simulation software: Altium, ADS, Ansys HFSS*, Spice, Matlab*, Git, Fusion360, Excel | *new to them