Lukas Müller

Electrical Engineering, Universidade Federal do Rio de Janeiro (UFRJ)

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Skills

Programming Languages | Python, JavaScript, C++, HTML, CSS

Languages | Portuguese (Native), English (Fluent), French (Basic)

Experience

Signal Processing Laboratory (LPS - UFRJ) | Researcher August 2020 -

- Image analysis using Neural Network to diagnose tuberculosis.
- This project aims to solve a public health issue in the socioeconomic context of the BRICS countries.

Pré-Vestibular Samora Machel (UFRJ) | Teacher March 2019 -

- Teacher of high school classes, preparing students for college contests at the end of high school.
- The pre-university course contemplates **800** low-income students who live in the surroundings of Ilha do Fundão in Rio de Janeiro.

Power System Laboratory (LASPOT - UFRJ) | Researcher January 2019 - July 2020

- Developed a GUI using **C++** to create, save and edit power systems single-line diagrams.
- Created a connection between the **C++ Qt Creator GUI** to the legacy **C++ Borland** and **Delphi** software using **Tcp Sockets**.

Projects

Liteboard.io **Tech Stack** | JavaScript, HTML, CSS

- Liteboard is powered by WebRTC and uses the Janus implementation of a Selective Forwarding Unit (SFU) to allow multiple participants per lecture while ensuring the lowest latency available on browsers. We host our own TURN server to guarantee support for users in any kind of network.
- Liteboard is a free, browser-based lecturing platform for anyone who wants to quickly setup a real-like classroom with State-of-the-Art drawing tools and webcam/audio broadcasts.

Intelligent Battery Charger

- Intelligent charger Project, being a more sustainable and efficient solution, enabling adequate loading lead-acid batteries, thus aiming to increase the service life and decrease discards.

Education

Universidade Federal do Rio de Janeiro (UFRJ) | Bachelor of Electrical Engineering February 2018 - December 2022

Physics 3 Monitor (Electricity and Magnetism) in the second student period of 2019;

Top 5% student - Calculus 1 Award;