

Vinícius DE OLIVEIRA PEIXOTO RODRIGUES

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EDUCATION

February, 2020 –
(expected 2024)

Bachelor of Engineering, Computer Engineering
Campinas State University - UNICAMP | Institute of Computing

Date of admission: February, 2020

RELEVANT EXPERIENCE

August, 2023 –
Present

DevOps Engineering Intern

UNICAMP | Laboratory of Communication Networks (LaRCom)

- Developed IaC solutions for large scale government projects in Brazil.
- Implemented monitoring and alert systems for critical infrastructure components using Prometheus and Grafana.
- Performed systems administration on a large ecosystem of Linux machines, both on the cloud (AWS) and on-premises.
- Automated the creation and deployment of testing/production environments using Docker and Gitlab CI/CD.

September 2023 –
Present

Member

UNICAMP | LKCAMP

- Active member of LKCAMP, a student organization based in the Campinas State University and focused on research about FOSS, particularly the Linux kernel.
- Gave workshops at local conferences about the basics of Linux kernel development.
- Organized events (Linux Install Fest, Kernel Day) in the university with the purpose of introducing new students to Linux and raising general interest in the subject.

September, 2022 –
August, 2023

Undergraduate Research Fellow

**Brazilian National Council for Scientific and Technological Development (CNPq) |
Research Group on Applied Security (UNICAMP)**

- Conducted research on the security, viability and performance of a novel, probabilistic consensus mechanism for public blockchains (Committeeless Proof-of-Stake, CPoS).
- Received an award for Best Undergraduate Research Paper in the 23rd Brazilian Symposium on Computational Security.

January 2021 –
August 2023

Project Coordinator

UNICAMP | Phoenix Robotics Team

- Led the development of a small-scale, self-driving car for robotics competitions.
- Worked on customizing and optimizing embedded Linux images for NVIDIA Jetson boards.
- Developed computer vision solutions for visual navigation using OpenCV and CUDA.
- Wrote firmware for custom control boards using Zephyr RTOS.
- Worked on a custom data transport protocol for fast and reliable serial communication between boards, porting the protocol to different RTOSes and hardware peripherals.

September, 2021 –
March, 2022

Embedded Software Engineering Intern

Motorola/Eldorado Research Institute | Campinas, SP, Brazil

- Developed, maintained and performed tests/bugfixes in code from the lower levels (kernel, HAL) of the Wi-Fi/Bluetooth stack in the Android OS.
- Worked side-by-side with customers during the process of board bring-up and validation of mobile devices.

February, 2022 –
July, 2022

Educational Support Program, PAD

UNICAMP | School of Electrical and Computer Engineering

- Worked as a teaching assistant for the Digital Systems Programming laboratory course.
- Was responsible for writing and validating class material about bare-metal programming for Arm Cortex M0+ boards, in Assembly and C.

TECHNOLOGIES

- **Programming Languages:** C/C++, Rust, Python
- **Tools:** Linux, Bash, Git, Docker, Nix

LANGUAGES

- **Portuguese:** native
- **Spanish, English:** fluent (> 10 years)
- **German:** Intermediate (3 years)
- **Mandarin:** Intermediate (3 years)