

Geovane Fedrecheski

Software Engineer | Embedded Systems | IoT | Security | PhD

Engineer-researcher hybrid with 10+ years spanning Web, embedded systems, secure IoT, and open source protocol stacks. Passionate about solving real problems by applying robust connectivity and security solutions.

EDUCATION

Escola Politécnica da USP, Electrical Engineering, PhD

2017 - 2022, SÃO PAULO - SP - BRAZIL 🇧🇷

Decentralized Security for IoT Swarms (links: [thesis](#), [defense](#)).

UC Berkeley, Visiting Researcher

NOV 2019 - MAR 2020, BERKELEY - CA - USA 🇺🇸

UNICENTRO, Computer Science, Bachelor

2010 - 2013, GUARAPUAVA - PR - BRAZIL 🇧🇷

EXPERIENCE

Inria, Lead Research Engineer

APR 2023 - NOW, PARIS - FRANCE 🇫🇷

Maintainer of a Rust [EDHOC](#) stack ([45k+ downloads](#)). Co-author of an [IETF draft](#) ([demo](#)). Lead of the [OpenSwarm](#) Testbed (goal: 1000 [DotBots](#)), coordinating partners across Europe and Asia. Created [Mari](#), a new link layer and supporting infrastructure, from concept to validation ([demo](#)). Covered: protocol design, simulation, bare-metal implementation on Nordic SoCs, and deployment on large-scale testbeds. Achieved responsive communication in dense wireless environments (200+ nodes).

LSI-TEC, Research Engineer

OCT 2015 - FEB 2023, SÃO PAULO - BRAZIL 🇧🇷

Deployed a [smart city IoT pilot](#) in 20 police cars. Created [libraries](#) used in 10+ papers on IoT Swarms. Taught an IoT [MOOC](#) reaching 100k+ students.

Alura, Software Programming Instructor

JUN 2022 - OCT 2023, SÃO PAULO - BRAZIL 🇧🇷 (remote, part-time)

Taught [HTTP](#) and [Security](#), reaching 30k paying students (avg. score 9.2/10).

EasyFix, Co-Founder & CTO

JAN 2017 - JAN 2018, SÃO PAULO - BRAZIL 🇧🇷 (startup, part-time)

Built backend & led tech for automotive service marketplace (300+ users).

LG Electronics, Trainee / Software Engineer

MAR 2014 - SEP 2015, SÃO PAULO - SP 🇧🇷

Solved **Android connectivity** issues affecting millions of LATAM devices.



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TECHNICAL COMPETENCES

Domains: Embedded, Networking, Security, Web, Protocol Design.

Languages: [C](#), [Python](#), [Rust](#), [Elixir](#), [Javascript](#), Java, Bash.

Protocols: EDHOC, CoAP, BLE, LoRaWAN, HTTP, TLS.

Writing: [papers](#), [standards](#), and documentation.

SOFT SKILLS

Leadership, [public speaking](#), [creativity](#), [teaching](#).

LANGUAGES

Portuguese - native.

English - fluent (TOEFL 108/120).

French - intermediate.

Spanish - elementary.

LINKS

Open source:

<https://github.com/geonnave>

Personal website:

<https://geonnave.com>

Publications:

<https://scholar.google.com/citations?user=TBf0rLkAAAAJ>