GERALDO LUIS DA SILVA RIBEIRO — RESUMÉ

SOFTWARE DEVELOPER, C++

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WORK EXPERIENCE

*** SENIOR SOFTWARE DEVELOPER**, Stefanini Rafael Security and Defense (STR),

Dez./2021 — present, São José dos Campos, São Paulo

- ► Stefanini Rafael Security and Defense (STR) acts in the areas of Security and Defense in Brazil and Latin America, with innovative solutions and high-technology equipment. The STR is a joint venture between Stefanini, a Brazilian multinational that operates in the IT services sector, and the company Rafael Advanced Defense Systems, which is of Israeli origin.
 - ✓ Applications for Software Defined Radio (SDR); C++; Linux
 - ✓ Applications for Named Data Network (NDN); C++; Linux
- **# SENIOR SOFTWARE DEVELOPER**, Stefanini IT Solutions, Jul./2019 Dez./2021, São José dos Campos, São Paulo
- **Stefanini** is considered one of Brazil's success stories in terms of internationalization in the **IT sector** and has expanded to 41 countries since its foundation in 1987. The company focuses on services around **automation**, **cloud**, **Internet of Things** and **user experience**, as well as the application of **artificial intelligence** to traditional services such as **service desk** and **business process outsourcing**.
 - Developed & maintained a Software Communications Architecture (SCA) Application to model waveforms and generate C++ validated code to run on Software Defined Radio (SDR). The SCA separates waveform software from the underlying hardware platform, facilitating waveform software portability and re-use to avoid costs of redeveloping waveforms. Java/Eclipse Modeling Framework.
 - ✓ Developed & maintained a Core Framework (CF) that defines the essential "core" set of open software interfaces and profiles that provide for the deployment, management, interconnection, and intercommunication of software application components in an embedded, distributed-computing communication system. C++: Linux
- **# SENIOR WEB DEVELOPER**, Quero Educação,

Feb./2017 — Sep./2017, São José dos Campos, São Paulo

- ▶ Quero Educação is the largest edtech in Brazil, accelerated twice by Y Combinator, one of the 40 Endeavor companies in the World, in addition to being certified by the Great Place to Work and one of the 50 startups with the greatest impact in Latin America by the WEF World Economic Forum. With more than 6000 partner educational institutions, it has already enrolled 900 thousand students in its marketplaces Quero Bolsa, Melhor Escola, ead.com.br, Guia da Carreira and Mundo Vestibular.
 - Developed scripts/utilities, feature implementation, bugfix, code optimization and test suites development for:
 - Educational Marketplace; Linux; Ruby on Rails; PostgreSQL; VuelS
 - Lead Management/CRM; Linux; Elixir; PostgreSQL; VueJS
- *** SYSTEM ANALYST**, Odebrecht Defense and Technology (Mectron),

 ${\sf Dez./2014-Feb./2017}$, São José dos Campos, São Paulo

- ▶ Mectron is a company specialized in the integration of systems with high technological content, which provides solutions to the demands of the defense and aerospace sectors. The main occupation is the development and integration of **intelligent weapons** and avionics systems/equipments to platforms for aircrafts, tanks, ships, land vehicles, etc.
 - ✓ Worked on the Brazilian Air Force's Link BR2 program
 - ✓ System and software requirement analysis
 - ✓ Development of Linux Kernel Modules for the Secure Operational System; C; Linux
 - ✓ Development of Distributed Persistence Layer for Sensible Data; C++; Linux
- **# ENGINEERING SYSTEMS INTEGRATION SPECIALIST, VSE,**

Aug./2008 — Mar./2014, São José dos Campos, São Paulo

► VALE Energy Solutions (VSE) was a company established by Vale and Brazil's National Development Bank (BN-DES). VSE's goal was to develop sustainable processes for generating energy from renewable sources through

research in the areas of **thermal coal and biomass gasification**, and the production of **gas-powered tur-bines** and **heavy multi-fuel motors**.

- ✓ Developed & maintained the Iron Pellet Plant Simulator iSim for the Tubarão Complex (VALE maintains the world's largest pelletizing center); C++; FLTK; Numerical methods;
- ✓ Developed & maintained Product Lifecycle Management for 3D models for numerical simulation/optimization; JAVA; C++; Pro/Engineer
- Developed & maintained Version Control System for 3D models for numerical simulation/optimization; JAVA;
 C++; Pro/Engineer
- ✓ Developed & maintained software, scripts and utilities for product optimization; C++; Perl; ModeFRON-TIER; Linux

*** SENIOR TECHNOLOGIST II, FUNCATE,**

Jan./2004 — Aug./2008, Cachoeira Paulista, São Paulo

- ▶ Foundation for Science, Technology and Space Applications (FUNCATE) is essentially dedicated to supporting government research and development institutions in implementing projects through specialised consultants, carrying out laboratory testing, which include issuing technical reports, metrology services, among others. The activities pertaining to this area are related to the processing and **analysis of remote sensors** aboard natural resource **satellites** and meteorological satellites.
 - ✓ Developed & maintained the CCDATS (Command/Control, Data Acquisition and Treatment System) for performance qualification of Liquid Propulsion Rocket Engine; HPUX; Linux; C++
- *** TECHNOLOGIST**, National Institute for Space Research (INPE), Jan./1998 Dez./2003, Cachoeira Paulista, São Paulo
- ▶ The National Institute for Space Research (INPE) is a research unit of the Brazilian Ministry of Science and Technology, whose main goals are fostering scientific research and technological applications and qualifying personnel in the fields of space and atmospheric sciences, space engineering, and space technology.
 - ✓ Developed & maintained the CATPA (Computer Aided Thruster Performance Analysis) data acquisition and treatment system for the Satellite Thruster Test Facility https://arc.aiaa.org/doi/pdf/10.2514/6.IAC-03-U.P.09; C++; Qt
 - Developed & maintained the BTSA Information System, a web tool to supporting the International Laboratory Accreditation process. PHP; MySQL

PREVIOUS EXPERIENCES

- ✓ Technology Instructor, 1996 1999, Cachoeira Paulista
- ✓ INPE Intern, 1995 1997, Cachoeira Paulista
- ✓ Mechanical Machining, 1990 1993, Cachoeira Paulista

SIDE PROJECT

- ✓ dFerias: web system for travel agencies; C++; Rocks DB; Server side rendering
- ✓ BNN: web system for the Emaus Igualdade (Brazilian chapter of the Emmaus International Solidarity Movement); C++; Rocks DB; Server side rendering
- ✓ Sigma Prova: web system for military course assessment tests for the EEAR Escola de Especialistas de Aeronáutica; C++; MySQL

EDUCATION AND CERTIFICATES

- ✓ 2007, LPIC-1 Certification, Linux Professional Institute
- ✓ 1996, A.A.S. in Mechanical Design Technology, IESC

TECHNICAL SKILLS

- ✓ (15+ years): C, C++, Make, Git, Subversion, Bash, AWS, Apache, Nginx, MySQL, Berkeley DB, HTML, CSS, Javacript
- ✓ (5+ years): Docker, Rocks DB, PostgreSQL, Ruby, Perl, VuelS
- ✓ (3+ years): Java, Eclipse Modeling Framework
- ✓ (Studying): CSSLP (Certified Secure Software Lifecycle Professional), Nuxt|S, Tailwind
- ✓ https://geraldo.dev/certificate/

LANGUAGES

- ✓ English Intermediate
- ✓ Portuguese Native