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Summary

Experienced Software Engineer with over 8 years in Linux embedded systems, specializing in end-to-end software development from drivers to user interfaces. Demonstrated expertise in C/C++, Python, algorithms, data structures, and embedded systems. Skilled in leading technical discussions, project management, and collaborating in diverse international environments. Passionate about leveraging data-driven decision-making and innovative problem-solving in dynamic team settings.

Experience

Senior Software Engineer – Topic Embedded Systems

March 2024 – Present

- Development and implementation of critical software features for lithography machines used in the semiconductor industry.

- Analyze technical requirements, translating them into software features using C, C++ and Python.

- Ensuring their proper integration and validation within a Linux environment

Staff Software Engineer - CommScope
Sep 2020 – March 2024

- Lead technical discussions and specifications for embedded software projects, ensuring alignment with overall system requirements.

- Collaborate with global teams, demonstrating strong project management skills in a multinational environment.

- Drive software optimization and problem-solving in embedded systems, focusing on performance and efficiency.

Senior Software Engineer - CommScope
Jul 2017 – Aug 2020

- Specialized in Linux embedded systems for Set-Top Box systems, focusing on ARM-based SoC Kernel/Linux integration and bug resolution in kernel and user space.

- Conducted board bring-up and software stack integration, demonstrating skills relevant to complex embedded software development.

- Provided critical support in debugging and fixing field issues, showcasing a strong understanding of product quality management.

Senior QA Automation Engineer - CommScope
Jan 2015 - Jun 2017

- Developed an automation robot using Python, showcasing proficiency in a language

relevant to advanced software development environments.

- Created Python applications for automation server communication, demonstrating skills in scripting and automation.

QA Analyst - CommScope
Mar 2013 - Dec 2014

- Conducted functional tests in black and white box environments, relevant to the testing responsibilities in software development.

Technical Leader - Samsung Electronics
Jan 2011 - Mar 2013

- Supported the engineering team in issue resolution and quality assurance, skills pertinent to software development and project management.

Education

- **Post Degree, Machine Learning for AI**
  Universidade Presbiteriana Mackenzie, 2020 – 2021

- **Post Degree, Embedded Electronic Systems**
  Centro Universitário do Instituto Mauá de Tecnologia, 2016 – 2017

- **Bachelor's Degree, Electrical and Electronic Engineering**
  Universidade Anhembi Morumbi, 2010 – 2015

Languages:

- Portuguese (Native)

- English (Fluent)

- Spanish (Advanced)

Skills:

- **Software Development:** Proficient in C/C++, Python, Bash script; extensive experience in Unix environments.

- **Embedded Systems:** Expertise in Linux, Kernel, Device Drivers.

- **Global Collaboration & Project Management:** Demonstrated success in leading and collaborating with international teams.

Specialization Courses:

- **Linux Embedded, Linux Device Drivers, Linux Debugging - Embedded Labworks:** Focused on embedded systems using Linux.

- **Embedded Systems - Shape the World - University of Texas UTAustinX:** Hands-on approach to embedded system design.

- **Making Embedded Systems - Classpert by Elecia White:** Comprehensive coverage of embedded system design, emphasizing system constraints and optimization.