Julio C. Villasante *May 24, 1980*

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Savvy Software Engineer with 10+ years experience. Expert in a variety of platforms, languages and embedded systems. An excellent problem solver, able to quickly grasp complex systems and identify opportunities for improvements and resolution of critical issues.

Experience

Nielsen — FLORIDA, USA

Lead Software Engineer — *Oct '18 – Present*

Research and development for TV ratings and streaming meter.

- C & C++ for Linux Embedded development.
- QP/Qm framework for state machines on embedded devices.
- IPC, Object Oriented & Multi-threaded design.
- Networking communication, Network protocols parsing, Websockets.
- Unit test driven (Google Test) & Agile environment (Jira, Confluence, Gitlab).
- Web Application: JavaScript, Web Sockets, Node, QUnit.
- Authored US Patent 11,496,925 *Methods and Apparatus to Determine Virtual Wifi Data Rate*.

Skillset: Operating Systems (Debian and OpenWRT); Git Version Control; Google Test Framework; Data Structures; Algorithms; Performance design and analysis; QP/QM Framework; Networking.

Languages: Primarily C & C++ in a UNIX-like environment; JavaScript; Shell Scripting.

Ascom Wireless Solutions — FLORIDA, USA

Software Engineer — *Aug '15 – Oct '2018*

Research and development focusing on innovative and reliable technologies for call systems, medical device integration, and wireless telephony to support and optimize our customers' mission-critical processes.

- Embedded development using C & C++ plus QT over Linux.
- Medical device communication through UDP and AMQP protocols.
- Wrote features on all levels of the solution (OS, Data, Business Logic, UI)
- Taking care of big legacy code and trying to make it better.

Skillset: Operating Systems (mostly LINUX); QT; Data Structures; Algorithms; Performance design and analysis; AMQP; MQTT; RabbitMQ; Networking; SQLite Databases.

Languages: Primarily C & C++ in a UNIX-like environment; JavaScript; Shell Scripting.

Please refer to my LinkedIn profile for a more complete list of work experiences along with recommendations.

Education

Instituto Superior Politécnico José Antonio Echeverría (CUJAE) — HAVANA, CUBA

Bachelor degree in Computer Science (CS) — *2003 – 2008*

Main courses in Programming Languages, Algorithms, Data Structures, Software Design, Software Architecture, Systems Engineering, C, C++, Web Technologies. Picked up quite some Java skills along the way.

Skills

Technical expertise: Big fan of Agile methodologies. Enjoys writing C & C++ mostly, but have experience in other languages as well. Solid knowledge of SQL and relational databases (PostgreSQL, MySQL, SQLite). Solid knowledge of web technologies. Strong Linux administration skills (e.g. Bash scripting). Strong Embedded systems development and integration skills. Complex problem solver skills. Strong decision maker. Excellent communicator. Independent, organized, punctual, positive attitude, team player, fast learner. Happy Git user. Emacs and VIM user.

Natural languages: Spanish (*mother tongue*), English (*full professional proficiency*).

Interests

Non-exhaustive and in no apparent order: C, C++, Rust, Systems Design & Programming, Internet of Things, Game Development, Networking, Functional Programming, Concurrency, Parallelism, Algorithms, Readable Code, Problem Solving, Linux/Unix, Embedded Development, Software Architecture, TDD, Design Patterns, Software Design, Cryptography, Cryptocurrencies, Open Source, Classical Guitar.