Julio **Paton**

SOFTWARE ENGINEER

Holyoke, Massachusetts

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Summary

C++ Senior Software Engineer with 8+ years of experience has led teams to deliver critical applications in international projects. Motivated to continue to learn and grow as a professional and to help other team members to achieve their full potential. Prior experience in Linux, network communications and embedded platforms development and expertise in all aspects of the software development lifecycle.

Work Experience

Tecnobit S.L.U. (C4I Systems)

Valdepeñas, Spain

SENIOR SOFTWARE ENGINEER

Jan. 2018 - Dec. 2019 and Apr. 2021 - Nov. 2022

- Plan, organize and monitor tasks of the software development team. Mentoring of new members
- Monitoring network devices using SNMP protocol.
- Messages routing through Ethernet, AM/FM radio and satellite. Technologies used include iptables, firewalls, TCP, UDP and multicast.
- Development of a Combat Management System (CMS) using QT and Luciad (GIS).
- Integration of communications systems such as network controller, modem, radio, GPS, NTP server, radar and cryptographic device.
- On-site system deployment, testing, support and training for navy members on ships, ground stations and aircrafts.
- In-depth use of modern C++, STL, Boost, GoogleTest, TCP/IP communications and multi-threading.

Tecnobit S.L.U. (Optronic Systems)

Valdepeñas, Spain

SENIOR SOFTWARE ENGINEER

Jan. 2020 - Mar. 21

- Embedded software design and development in C/C++ using Xilinx SDK for Zynq microprocessor.
- Use of bug finding tools such as AddressSanitizer and Valgrind.
- Remote and on-site support to client.
- Controlling interfaces such as GPIO, I2C, UART and Ethernet.
- Customization of Yocto image.
- CI of SW components.
- Technologies used include C++14, STL, GoogleTest, Xilinx SDK, Yocto Project and Jenkins.

Tecnobit S.L.U. (C4I Systems)

Valdepeñas, Spain

SOFTWARE DEVELOPER

Jun. 2014 - Dec. 2017

- Design, develop and testing of Tactical Data Link Systems including Link11, Link16, Link22, JREAP and SIMPLE protocols.
- Port a VxWorks Tactical Data Link processor application to Linux.
- Technologies used include C++11 and Qt.

VISILAB Research Group (UCLM)

Ciudad Real, Spain

RESEARCH ASSISTANT

Sep. 2012 - May. 2014

- Design and develop computer vision applications for desktop, Android and iOS platforms using OpenCV.
- [Book] OpenCV Essentials, Packt Publishing, 2014.
- [Article] A Vision-Based Localization Algorithm for an Indoor Navigation App, Eighth International Conference on Next Generation Mobile Apps, Services and Technologies (NGMAST), 2014.

Education

Graduate Diploma in Video Games Development

Ciudad Real, Spain

UCLM (UNIVERSITY OF CASTILLA - LA MANCHA)

Sep. 2013 - Jun. 2014

B.S. in Computer Science and Engineering

Ciudad Real, Spain

UCLM (UNIVERSITY OF CASTILLA - LA MANCHA)

Sep. 2007 - Jun. 2013

Erasmus Scholarship

Eindhoven, The Netherlands

TUE (EINDHOVEN UNIVERSITY OF TECHNOLOGY)

Sep. 2009 - Jul. 2010

Visa Status

J-2 visa and EAD card holder valid until 06-30-2025 and extendable for two more years.