Sergio Soto

Software Engineer
Stuttgart Area

CONTACT

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EDUCATION

M.Sc. Computer and Communications Engineering
2015 | Universität des Saarlandes

Master degree specialized on data networks, real time systems, and software development. My thesis focused on the control of novel electronic sensors printed on flexible surfaces.

M.Sc. Computer Security and Intelligent Systems
2013 | Universitat Rovira i Virgili

Master degree specialized in advanced fields of AI, computer vision, and robotics. My thesis focused on combining texture information with optical flow techniques to analyze and segment motion.

B.Sc. Electronic and Computer Engineering
2010 | Tecnológico de Monterrey

Bachelor degree specialized in developing skills to solve complex engineering problems in the fields of technology and electronics.

LANGUAGES

Spanish (Native)
English (Full professional proficiency)
German (TELC B2)

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PROFILE

I'm an electronic engineer with more than a decade of experience in software development, focusing on the seamless integration of hardware and software components. I have a keen interest in new technologies and a proactive approach to problem-solving.

WORK EXPERIENCE

Software Engineer   **2016 - NOV**
IBM Deutschland Research and Development GmbH

As team lead, I guide the design, development, testing, and integration of the Energy Management function for IBM mainframes.

- I collaborate with external clients to understand their data center energy needs and build tailored power and environmental monitoring capabilities and power-saving software tools for IBM Z Support Element in order to help them meet their sustainability goals.
- I coordinate with internal teams to review architecture designs and deliver system-wide features across firmware components.
- I lead internal initiatives to adopt test automation, developing tools and strategies to improve verification processes and enhance software quality.

keywords: *Java, Kotlin, Python, C++, Shell Scripting, JUnit, robotframework, gRPC, REST, MQTT, Agile/Scrum, CI/CD, Jenkins, Git, Docker/Podman, HTTP, CSS, Ansible*

Application Developer   **2013- 2016**
semvox GmbH

I developed appealing and interactive field applications that bundled general consumer electronics with SemVox semantic technology.

Independent Test and Verification Engineer   **2010 - 2011**
Delphi Automotive Queretaro Technical Center

I designed, developed, executed and documented test procedures for embedded software in electronic control modules for vehicle restraint and crash sensing systems.

keywords: *C++, software & hardware testing, CAN*

TALKS & PUBLICATIONS

I represented IBM as a sustainability subject matter expert at the Gartner IT Symposium 2022 in Barcelona, generating 15+ leads through client talks and demos.

Simon Olberding, Sergio Soto Ortega, Klaus Hildebrandt, Jürgen Steimle.
"Foldio: Digital Fabrication of Interactive and Shape-Changing Objects With Foldable Printed Electronics''.

AWARDS

Received IBM Tech recognition in Dubai for driving innovation, culture transformation, and growth in 2023.

Received the Best Paper Award at ACM UIST 2015 for 'Foldio: Digital Fabrication of Interactive and Shape-Changing Objects With Foldable Printed Electronics'.

Received the 'Premi Extraordinari' award from Rovira i Virgili University for completing master's studies with the highest grade among fellow students in 2013.

Awarded a ''Fundación Carolina'' scholarship to pursue a master's degree program in Intelligent Systems at the Rovira i Virgili University in Tarragona Spain. 2011.