



# 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)

## 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 IBM Deutschland Research and Development GmbH 2016 - NOV

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 semvox GmbH 2013- 2016

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

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

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.



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