

JESÚS ESPINOZA HERNÁNDEZ

ABOUT ME

Accomplished Senior Software Specialist with extensive experience architecting and implementing large-scale end-to-end solutions in the medical, semiconductor and telecom industry. I am self taught and highly motivated to learn new technologies and improve my skills.

3 years experience developing data pre-processing architectures and applications in the telecom industry. I have worked for large companies such as Verizon and NTT developing data mediation solutions for large scale distributed systems.

4 years experience developing web applications for the medical imaging industry using Java technologies and the medical standards DICOM and HL7. My projects were implemented in various radiology clinics as an employee and large government institutions such as Mexico's ISSSTE as a freelancer. These projects consisted mainly of image acquisition from X-Ray machines, image storage and presentation, as well as general department workflows such as patient scheduling and reporting.

4 years experience developing data extraction, post-processing and reporting applications in the semiconductor industry. These consisted of automating the extraction of data logs from test machines and then parsing, analyzing and reporting using Python technologies.

TECHNICAL SKILLS

Computer Languages	Python, SQL, Java, C#, Swift
Protocols & APIs	DICOM, JavaEE 7, iOS Development, REST
Databases	MySQL, Oracle 11g
Tools	Git, Linux, Docker, Wildfly Application Server
	MediationZone from DigitalRoute
Other	Amazon Web Services

WORK EXPERIENCE

PERIOD	February 2014 — February 2017
EMPLOYER	AgileTransactions
JOB TITLE	Senior Software Developer
	Subject Matter Expert for the MediationZone data transformation and pre-processing tool. Responsibilities include:
	<ul style="list-style-type: none">• Providing MediationZone knowledge and support to the clients development team• Engagement with the operators Business Analysts to define solution requirements• Collaboration with operator's staff and AgileTransactions development team to define most effective solution design• Development of mediation configurations and delivery of final solutions• High availability aggregation and consolidation of data• DTK MediationZone plugin development and Java build environment automation
PERIOD	January 2010 — March 2014
EMPLOYER	Radiología Digital Diagnostica
JOB TITLE	IT Engineer
	Worked as a Senior Developer consultant working on a medical solution project for a Radiology clinic. Activities included requirements capture, development and delivery of a Radiology Information System that would work across three cities in Baja California Mexico using Java based technologies.
PERIOD	November 2006 — January 2011
EMPLOYER	International Rectifier Manufacturing Plant
JOB TITLE	Electrical Test Engineer
	Worked on design and implementation of custom solutions for real-time electrical data analysis of semiconductor manufacturing process using Python based technologies. Worked on custom software solutions for manufacturing processing tracking and reporting of manufactured goods. Primary responsibilities included managing and diagnosing a semiconductor electrical test process, performing tests on defects and reporting on engineering lot runs.

PERIOD	February 2005 — November 2006
EMPLOYER	PPH Industrial / Wiremold
JOB TITLE	JIT Coordinator
	Lead small to medium size teams as the lead Just In Time coordinator in continuous improvement projects known as Kaizen events so we could implement improvements to the manufacturing process. This consisted in week long activities such as evaluation, implementation and measurement of proposed solutions by the team members. I also developed an inventory reporting and product tracking system which was used during the company's monthly inventory evaluation.

EDUCATION

PERIOD	August 2008 — November 2013
DEGREE	Masters in Science in Telecommunications
UNIVERSITY	Universidad Autónoma de Baja California Tijuana, México
	Thesis: Analysis of the performance of the USRP platform using the QPSK modulation scheme as a tool for teaching telecommunications. Project Description: Analyse the performance of the Universal Software Radio Peripheral as a tool for the study of digital modulation techniques and the software defined radio concept at an academic level.
PERIOD	January 1999 – August 2004
DEGREE	B.S. in Electrical Engineering
UNIVERSITY	Universidad Autónoma de Baja California Tijuana, México
	Career focus in digital electronics and embedded systems.

LANGUAGES

Native	Spanish
Foreign	English 95% written and spoken

CONTACTS

Claudia Licet Huerta Zarate	Trainer — (664) 225-1170
Javier Hernández Martínez	Electrical Engineer — (664) 357-8940
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Raymundo Miranda	Electronics Engineer — (664) 121-5202