Jesús Espinoza Hernández

About Me

I'm an Electrical Engineer with a Masters Degree in Science in the field of Telecommunications. I have experience programming embedded systems and developing data analysis programs. I'm also proficient in Linux server administration based on the openSuse Linux distribution and MySQL server administration. I'm very passionate about electronics and programming in general. I'm self-taught, always willing to learn new things and a good team player. I have lead small to medium sized teams in continuous improvement projects. My current work is in the medical field and I'm involved in a large Web based project for the Radiology sector.

Skills

Computer Languages	Python, SQL, C++, C#, Java
Protocols & APIs	REST, DICOM, HL7, JavaEE, .NET
Databases	MySQL
Tools	Git, Vim, Linux, Office 2007 (Word, PowerPoint, Excel), Java Application Servers (JBoss 7)
Other	Microcontroller based circuit design.

Work Experience

Period **January 2010 — Current**
Employer **Radiología Digital Diagnostica**
Job Title **IT Engineer**

Developed a Web based Radiology Information System in Java. The system provides the means to schedule encounters at the clinic, query modalities (X-Ray machines) for images after the study is performed and capture the doctor's medical report. It can also provide performance reports based on different criteria such as number of studies done by modality, number of patients referred by external doctors, etc. The system is developed using JavaEE 6 and the Jboss 7 Application Server on a Linux environment. The back-end database is based on MySQL server.

Period **November 2009 — January 2011**
Employer **International Rectifier Manufacturing Plant**
Job Title **Electrical Test Engineer**

I supervised a MOSFET production line in it's electrical test phase. Duties included developing and validating test programs for test machines based on established electrical parameters, as well as developing reports based on product performance. I automated these reports using the Python scripting language to gather data from the test machine and generate statistical analysis and reporting. I also developed an automated labeling system for final product shipments based on the C# language interfaced to thermal printers.

Paseo Ensenada 1527, Playas de Tijuana · Tijuana · México ✉ chuyespinoza@gmail.com ☎ (664) 110-9697

Period	**February 2005 — November 2006**
Employer	**PPH Industrial / Wiremold**
Job Title	**JIT Coordinator**

As the lead Just In Time coordinator I lead small to medium size teams 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

Carrier focus in digital electronics and embedded systems.

Languages

Native	Spanish
Foreign	English 90% spoken, 80% written

Contacts

Claudia Licet Huerta Zarate	Trainer — (664) 212-4682
Javier Hernández Martínez	Electrical Engineer — (664) 357-8940
Ari Gerardo Sela	Software Engineer — (664) 286-5641

Paseo Ensenada 1527, Playas de Tijuana · Tijuana · México ✉ chuyespinoza@gmail.com ☎ (664) 110-9697