

Curriculum Vitae

Personal details

Surname / Family Name	Guerra Marín
First name(s)	Rubén
Address	Pueblo Nuevo 11720, Pueblo Bonito
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Date & Place of Birth	10/02/1990 Tijuana, México
Gender (M/F)	M



Education

Bachelor

University:	CETYS Universidad
Name of program:	Bachelor of Electronic Cybernetics Engineering
Field:	Automation and Industrial Robotics.
Start date:	August 2008
Expected date of graduation:	June 2013
GPA:	96
Internships:	Honeywell Inc.

- Worked at the R&D department.
- Build a gas cycling machine using LabVIEW with a compactDAQ for the quality department. The machine measures the valves lifetime and generates reports based on the results.
- Code tuning of production machines, using LabVIEW and a compactRIO, raising the yield by 9%.
- PCB designs using NI Ultiboard.

Main projects:

- CNC: A CNC programmed completely in LabVIEW using a NI USB-DAQ and stepper motors. The machine is very precise and it can be used to draw, cut, or pick & place components on any surface.
- Intelligent house: Miniature house with lights and sensors. The house was monitored and controlled from a computer. The temperature was read with a thermocouple and adjusted using fuzzy logic algorithms. When the alarm rang, an email was sent to the owner. Profiles could be made in order to turn on and off the lights at a certain time. All the lights and sensors could be turned on and off from the computer. Everything was programmed using LabVIEW.
- iCarrito: Small car programmed in C on an Atmega128 microcontroller, moved by using PWM functions. It is controlled over Wi-Fi using the accelerometer sensors of an android phone sent by TCP, programmed using the Android SDK.

International Student:

Johannes Kepler Universität Linz, Austria 2011.

Certifications

- Certified LabVIEW Associate Developer (National Instruments, March 2012).

Relevant work experience

Electronic Engineer at ICCNexergy, Inc. June 2012 – Present

- Electronic engineer at the electric testing and automation department.
- Project leader in automation tasks.
- Automate testing machines using LabVIEW and Visual Basic.
- Medical and non-medical electric testing.
- Electric failures analysis.
- Production line support.

Software Engineer at Free/Libre/Open-Source Software October 2009 - Present

- Contributor and promoter of Free Software and Open Source projects.
- Fedora Ambassador.
- Lead member of the Tijuana GNU/Linux Users Group and the Tijuana Google Developers Group.
- Give speeches and workshops about GNU/Linux, Free Software and Google technologies.

Automation Engineer at Soluciones de Ingeniería April 2012 - June 2012

- Automation Engineer.
- Project was at Honeywell, building a new assembly line.
- Programming automation machines using PLCs and LabVIEW, compactDAQ, compactRIO, designing machines, doing electrical and electronic designs and connections.

English language Skills

TOEFL IBT (November 2012) – 101.

- Reading – 25
- Listening – 24
- Speaking – 27
- Writing – 25

Other language Skills

German A2 level (Johannes Kepler Universität Linz, Austria 2011).

Awards, scholarships, achievements

- Pro-Engineering ScholarMain projects:ship (CETYS Universidad) – 50 %.
- Teléfonos del Noroeste Scholarship for outstanding children of employees – 45 %.
- TELMEX Scholarship (Teléfonos de México) – Monthly allowance of 900 Mexican Pesos.
- Third place at the Tijuana Startup Weekend 2012 (Startup Weekend).

Computer skills and competences

- Operating systems: Windows, GNU/Linux.
- Protocols: ZigBee, Bluetooth, Wi-Fi, UART, SSH, FTP, TCP, SMTP, SNMP, TELNET.
- Programming skills: Python, Java, LabVIEW, C, Assembly, PHP.
- Frameworks: Django, Android SDK.
- Databases: MySQL, SQLite, MS Access.
- Strong experience mounting LAMP servers.