

Resume

Marcos Ariel Chaparro

Personal information:

Address: Martín García 184, Punta Alta, Buenos Aires, Argentina

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Education:

University: Electronic Engineering, at [U.T.N.](#) - Bahía Blanca.

GPA: 7.57 over 10, one year to graduate

High School: “Bachiller con orientación Ciencias Naturales”, Inst. José M. Estrada – Punta Alta. 2005.

GPA: 8.98 over 10

Experience

- Member of DIYEFI.org, designing [hardware](#) for the [FreeEMS](#) project, in charge of layout.
- Multiplatform [GUI](#) designer, with a basic [webpage](#) experience.
- Long time Debian GNU/Linux user, with experience in real time Linux kernels (preempt-rt and xenomai) and kernelspace hacking. Provided [code](#) for a WiFi module that is now in the Linux mainstream.
- C programming for ARM, Microchip PIC and dsPIC microcontrollers, and a bit of Freescale S12. Mostly hard real time projects, most of them using gcc.
- Qt4 framework, git version control, and Debian [packaging](#).
- High performance computing using openMP, MPI, and Condor.
- Worked at the Hospital Naval Puerto Belgrano, repairing electromedical instruments and designing [upgrades](#) for the equipment of the lab.
- Worked at [INVAP](#) in aerospace and military projects.
- Hundreds of [boards](#) produced and assembled using SMT, including 2, 4 and 6 layer boards.
- Director of [Mrk Industries](#).
- Used Verilog, Coocox, RAID1 setups, ssh, Neural networks, oxyacetylene welding and SMT reflow.
- Researcher at the “Grupo de Estudios de Bio-Ingeniería” ([GEBI](#)) in the Universidad Tecnológica Nacional.

Languages:

Spanish, native fluency

English, poor fluency, good written practice.

Publications:

2010: Co-author of the paper “Herramienta Computacional Para la Determinación de Mapas Electromagnéticos de Radiofrecuencias.” N. Mata, P. Baldini, Ch. Galasso, M Chaparro, M Silva Bustos. Exposed at [EMNUS](#) 2010, UTN, FR Haedo.

2011: Curso Introductorio sobre GNU/Linux para Sistemas Embebidos, at UTN FRBB

2011: Congreso Argentino de Ciencias de la Computación, at UTN Facultad Regional Mendoza

2012: Sistemas embebidos robustos (HW, SW, DFM) at UTN FRBB

Honors and prizes:

First prize, Frida international program

Winner in the Development category with Electrosmart project

JCI-TOYP 2012

The Outstanding Young Persons of Buenos Aires, in the category DESARROLLO CIENTÍFICO Y TECNOLÓGICO, from the JCI.

First Prize Asociación Marchigianar

December 2012

Portable ECG for mobile devices

Winner between 150 projects.

The ECapital 2012 contest is supported by La Región de Le Marche, Embassy of Italia, Deloitte, Empreare, Hope Funds, Andreani, Lupa Corp, Ariston, Brandoni, Pieralisi and ArsUltra.

Third place at INNOVAR

November 2012

Portable ECG for mobile devices

The third most voted projects between more than 2000 projects.

Second place Banco Santander Río

December 2012

Portable ECG for mobile devices

24hs de Innovación

International 24h competition, competing against 2000+ teams, 8th place.