

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 and production.
- 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.

Other activities:

2007: Development and testing of an [Engine Management Sytem](#), intended to be an extremely cost-effective solution to replace carburetors.

2008: [ACM-IBM international collegiate programming contest](#) , representing the UTN FRBB at the

