

## Objective

A full-time software development position where my abilities can fit. I can undertake and complete new and interesting tasks. I do contract work in addition to my regular job on occasionally.

## Main Interests

Free Software and Open Source development, Machine Learning, Mobile Robotics, Web development and Networking.

## Main Skills

- Practical programming experience in C, Perl, PHP and Python. Some exposure to Java, C++ and C#.
- Practical content-development experience with XML, HTML, XHTML, CSS and JavaScript.
- Extensive experience administering in several flavors of GNU/Linux and FreeBSD. User experience with Solaris and AIX. Experience in Cisco Internetworking OS (IOS).
- Development of Web-based software for the Apache Web server, Postgres and MySQL database servers. Some exposure to GUI development with GTK+ libraries.
- Excellent written and oral communication skills. Good at communicating complex technical topics to non-technical people.
- Self-starter and fast learning; used to work with minimal supervision on multiple tasks simultaneously.
- Spanish as mother language and spoken and written English.

## Education

*Master degree in Computer Science*, Nov 2005, Instituto Tecnológico de Estudios Superiores de Monterrey, Campus Cuernavaca, Cuernavaca, Mor. Thesis' title: *Construcción de Mapas y Localización Simultánea con Robots Móviles*.

*Bachelor of Computer Systems Engineering*, Jun 2001, Instituto Tecnológico de Celaya, Celaya, Gto. Thesis' title: *Desarrollo de Aplicaciones Web Utilizando Software Libre: Arquitectura y Recomendaciones*.

## Work experience

**Coral Tecnología y Sistemas, S.A. de C.V.**

*External Consultant*

Celaya, Gto.

Multi-domain email system with administration delegation. Dial-up authentication process integrated with billing and accounting systems. Collaboration in the installation of the wireless service infrastructure. See <http://www.coral.com.mx>.

**Abastecedora de Conectividad, S.A. de C.V.**

*External Consultant*

**AbaNet**

Querétaro, Qro.

Network band width controlling. Multi-domain email system with administration delegation. Installation and developing of monitoring and network administration tools.

See <http://www.abanet.net>.

**Proveedora de Servicios de Alta Tecnología***External Consultant*

Dolores Hidalgo, Gto.

Installation of dial-up authentication system. Email system and network administration in general. Installation of RAS (Cyclades PC400) in Debian GNU/Linux.

See <http://www.prosat.net>.

**Autotransportes de Carga Tresguerras, S.A. de C.V.***External Consultant*

Celaya, Gto.

Network administration in general.

See <http://www.tresguerras.com.mx>.

**Coral SJI***CEO*

San José Iturbide, Gto.

Telephone and Wireless ISP. In association with Norberto Muñoz Gómez.

**Instituto Tecnológico de Celaya***Teacher and external consultant*

Celaya, Gto.

Teaching the course of Operating Systems II. Security schemes and firewalls for their networks.

**Awards and scholarships**

- Participation in the XV Congreso Nacional de Creatividad. Local and regional stages. Instituto Tecnológico de Celaya / Instituto Tecnológico de Acapulco.
- Participation in the VII Concurso Nacional de Ciencias Básicas. Local and regional stages. Instituto Tecnológico de Celaya / Instituto Tecnológico de Chilpancingo.
- Speaker at GULEV Congress with several speeches (2002-2003).
- Cosnet scholarship program: “Alumnos Integrados a la Investigación”. Working with Dr. José María Rico Martínez in Mechanisms analysis.
- ITESM research scholarship “Cátedras académicas”, in the mobile robotics area.

**Activities**

Member and founder of the Bajío Linux User Group, GLIB. Web site Administrator also.

See: <http://www.glib.org.mx>.

Responsible of the Intelligent Systems Laboratory at the ITESM Campus Cuernavaca.

Contributor in the player-stage project.

See: <http://playerstage.sourceforge.net>

Developer of the XSUSockD, a remote non-interactive commands executer.

See: <http://freshmeat.net/projects/xsusockd/>