## Personal Information

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## Professional objective

To improve and apply my knowledge and skills in hardware and software programming to contribute to the company's goal achievement plan as well as develop myself in computer architecture areas and programming skills.

## Education background

**Instituto Tecnológico y de Estudios Superiores de Monterrey.** Monterrey, México.
*Digital System and Robotic Engineering.*

August 2010 – December 2015(Graduation)

## International Experience

**Exchange program between Tecnológico de Monterrey Campus Monterrey and the University of Stuttgart.**
University of Stuttgart (May 2015 – July 2015)

- International Business course.
- German language course.

## Skills and courses

**Language:** Spanish (native language) and English.

**Programing languages:** Java(basic), C(advance), C++(intermediate), C#(basic), HTML5(basic), Swift (basic), VHDL(basic), assembly language(intermediate).

**Courses:** Microprocessor developing (MIPS), application development using java to control the web flow.

**Computer packages:** Matlab(basic) , Arduino(advance), Xcode(intermediate), terminal on linux System(intermediate), Eclipse(intermediate), Visual Studio(intermediate) and NetBeans(basic). Using the following operate tystems MacOS, Windows, Linux and Raspbian.

## Professional Experience

- **Mecatroniks (Monterrey, México)**
  ***Internship:*** *Teaching basic programming language to students between the ages of 7 and 15.*

  June – August 2013.

- **MiniRobotica (Monterrey, México)**
  ***Social Service:*** *Teaching basic and intermediate electronic components to 15-yeas-old students.*

  *August – December 2013.*

- **G-Tronics (Monterrey, México)**
  ***Professional Experience:*** *Home automation involving the installation and programming of security and entertainment system on the domotic area.*

  *June-August 2012.*

- **Epicor (Monterrey, México)**
  ***Professional Job:*** *Software Engineer, Web application development in executive information systems.*

  *May 2014-January 2015.*

## Personal and academic Projects

**Projects:**

- Design a 32-bits microprocessor in VHDL with the MIPS architecture in a FPGA designed to read and execute assembly instructions.
- Using a drone vision system to recognize colors and shapes to select a path in a determinate area with the use of Opencv libraries. (Team of 3 people)
- Personal project in my home to control different sets of lights, a swimming pool water pump, and a fountain in my courtyard using Bluetooth in an android app.
- Design and development of an autonomous car (30cm x 30 cm) that uses a vision system to recognize a picture of a flame, picks the proper tool off the floor accordingly and finally uses it to put out the fire. (Team of 5 people).