



SUMMARY

Originally from Argentina with a Bachelor of Electrical Engineering. I have always been passionate about software engineering with the aim of complementing with my hardware skills. I'm very serious about the process of maintaining and writing quality code, paying special attention to tests, security and version control, as well as finding opportunities to both broaden and deepen my skillset. I also enjoy playing social team sports such as basketball and soccer and traveling.



SKILL SET

Software: Ruby/Ruby on Rails, SQL Databases, HTML, CSS, Javascript (jQuery, EmberJS, Node), Python, Objective C, Swift, Matlab, Rspec, MiniTest, Capybara, Git/Github, REST API design, Xcode, Vim

Operating Systems: Linux, Mac OSX, Windows

Hardware: Microcontrollers, Analog Circuit Design, Embedded Systems, Wireless Sensor Networks, Communication & Antennas

Languages: Fluent English & Spanish



EXPERIENCE

VIJILENT (DURHAM, NC / 2015-2016)

iPhone app & Back end API developer

Activities involved the development of the iPhone app in Objective-C for Vijilent and submission to the App Store. I was also involved in the backend server development using Node and MongoDB and the deployment of the back end code to AWS and IBM Bluemix servers containing the API for the mobile applications.

THE IRON YARD ACADEMY (DURHAM, NC / 2014)

Web development track at intensive (twelve-week, full-time) code school. The skills developed include:

- + Learned object-oriented programming and design using Ruby
- + Built web applications backed by SQLite3 and Postgres databases using Ruby on Rails
- + Studied REST API design, including authentication using OAuth
- + Retrieved and rendered information from internal and external APIs using JavaScript
- + Used development best practices including test-driven development and agile planning
- + Tested applications, including unit, controller and acceptance tests using Capybara
- + Experienced developing in groups, both with other Rails and front-end developers
- + Coordinated development using Git and GitHub



CO-FOUNDER, R&D PROJECT MANAGER OF ACUMINE ARGENTINA (BAHIA BLANCA, ARG / 2008 - 2014)

Acumine Argentina S.A. is the first academic spin-off in electronics of Argentina. The company develops one of the world's leading Collision Avoidance Safety Systems for open pit mining. During this time I led the Hardware R&D and manufacturing group (activities included technology design and testing, costs evaluation, providers and customers interaction). The company works together with the Australian Centre for Field Robotics at the University of Sydney, Australia. From 2008 to 2014 the company was involved in several trials, pilots and personnel trainings in which I played various roles. Some examples include:

- + CODELCO, Chile: Codelco is the leading Chilean copper mining company and one of the biggest of the world. I spent 3 months working together with them to demonstrate 4CAST, personnel and manager safety training with the system, installation and setup for the technology. The mines involved were: Andina, Radomiro Tomic and Chuquicamata.
- + BARRICK GOLD: They invited Acumine to be part of the field trial to choose the main collision avoidance system for the company worldwide. I participated in the trials and training of the Barrick personnel on installing and setting up the technology in the vehicles for several mines that included: Veladero Mine (Argentina), Goldstrike (USA) and Ruby Hills (USA).

ELECTRONICS TEACHER AT UNIVERSIDAD NACIONAL DEL SUR (BAHIA BLANCA, ARGENTINA / 2005 - 2012)

Teacher of third and fourth year students of Electrical Engineering. Subjects included analog and digital electronics design, communications and antennas, amplifiers and feedback.



EDUCATION

PROGRAMS

The Iron Yard Academy (Rails Engineering / 2014)

Bachelor of Electrical Engineering (Universidad Nacional del Sur, Argentina / 1998 - 2007)

POSTGRADUATE COURSES

Functional Analysis, Analog VLSI Design, Modeling and Operation MOS transistor, Multisensor Datafusion.



VOLUNTEER WORK & SOCIAL

- + **Volunteer Work:** Teacher Assistant for the RailsBridge workshops in Durham (July 2015) and New York City (November 2015) - Setup of computer and installation of Linux Operating Systems in Kramden Institute, Durham (2014).
- + **Social:** Organizer of TIY Alumni Presentation Interactive Meetup. (Durham - 2015/2016)



REFERENCES

References upon request.

