

Cesar Hernan Martinez Auquilla

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Information Systems Engineer and GIS Specialist

Information Systems Engineer and Geographic Information Systems (GIS) Specialist seeking a position performing IT Network and Systems management, database design and maintenance, web development as well as GIS analysis and management.

Because of my love for technology since I was very young, I had decided to study Systems Engineering, and during this process I became passionate about programming, databases and GIS. For that reason I continued with my studies doing a masters in Geographic Information Systems where I was able to fuse the programming, databases and GIS in some projects. One of those projects, and the most important and my favorite, was the one where I created an environmental management plan to identify a site for a waste transfer station in which I used these three technologies, the programming, databases and GIS, to help identify the best location that would not affect the principal water sources, the environmental biodiversity nor community.

Professional Experience

Consulting Services 2014-Present

Consultant - HealthWell Foundation, Maryland -USA, www.HealthWellFoundation.org

- Conduct online application processing and verification data for prescription drug help requests for this non-profit organization.
- Process of 150 cases for people who request help with prescription drugs for major health issues.

IT Manager, Persiano Rug Inc, 2016-2019

- Hired by Persiano to design and implement a full IT system solution for the company.
- Implemented database system to manage furniture inventory for three branches.
- Server, network, website and social media administration
- I am responsible of the complete modernization of the company.
- Web site: <http://www.persianogallery.com/>

President, Co-Owner of Msportswear Ltd, Cuenca - Ecuador 2012-present

- Created family owned company while studying for Master's degree
- Manage projects for IT systems and manufacturing processes using the latest technologies
- Oversee production of high-quality competition clothing for high-endurance athletes
- Income and production grew 300% between 2012 and 2013, and 100% from 2015 to 2016
- Web site: <http://www.martinezsportswear.com/>

Systems Engineer – EXPOCOE, Cuenca - Ecuador

- Hosting and Network administrator
- Website developer and administrator – Increased the company's imports and attracted new customers with website and social media enhancements.

Systems Engineer – “La Portada”, Cuenca - Ecuador

- Hosting and Network administrator
- Website developer and administrator –attracted new customers with website and social media enhancements.

Systems Engineer – Khalida SPA, Cuenca - Ecuador

- Hosting and Network administrator

- Website developer and administrator –attracted new customers with website and social media enhancements.

Education and Experience

University of Azuay, Cuenca – Ecuador

Masters Candidate, May 2014, Geographic Information Systems with emphasis on Land Planning

- Completed Master's curriculum
- Thesis defense planned for December , 2018

GIS Projects

- Created environmental management plan to identify site for waste transfer station in Cuenca, Ecuador
 - Location for the landfill identified by this project was implemented by the municipality
 - Used Geographic Information Systems such as **ARCGIS 10.0, ARCSCE 10.0**
- Created dynamic model to simulate effect of dam breakage on a surrounding area using **NetLogo 4.1.3**
- Collaborated in creation of the Land Plan of the City of Cuenca, Ecuador

GIS Knowledge/Experience

- Spatial reference systems and Global satellite navigation systems
- Aerial Photographs and Photo restoration
- Geodatabases and network analysis
- Satellite Teledetection and Teledetection Sensors
- Temporal Analysis of Teledetection Output
- Exploratory Analysis of Spatial Data and Infrastructure for Spatial Data and Map Servers
- Advanced Analysis of Geographic Data (socioeconomic variables)
- Cartographic Quality Control, Land Surveys, and Valuation
- Management and Use of Hidrographic Bodies
- Environmental Protection, Land Use Planning, and Assessment and Restructuring

Undergraduate Education

University of Azuay, Cuenca - Ecuador 2011: Bachelors - Information Systems Engineering

US Degree equivalence evaluation from WES available upon request

Most Important Projects

- Created Web-based application for the administrative control of a sports academy (The Inline Speed Skating Federation of Azuay, an Ecuadorian province)
 - Database: **MySQL**
 - Programming Language: **Oracle JDeveloper 11g**
 - This application was the final Project for graduation in Information Systems Engineering
 - Received perfect score for this final Project from the faculty
- Created Information Management System for the Water Utility in Cuenca, Ecuador
 - Database: **MySQL**
 - Programming Language: **PHP**

Technologies and Systems

- **Databases:** Oracle, MySQL, Access
- **Developer Programs:** Oracle JDeveloper 11g, Visual Basic 6.0, Visual Basic .NET, Prolog, Dreamweaver, C++, Oracle Forms, MySQL Workbench, Data Warehouse, NetLogo 4.1.3
- **Geographic Information Systems:** Arcgis 9.3, Arcgis 10.0, ArcScene 10.0, ENVI, IDRISI SELVA
- **Programming Languages:** Java, XML, HTML, PHP, ADF, BASIC
- **Networking Protocols:** DNS, DHCP, HTTP, OSPF, EIGRP, TFTP, Frame Relay, ATM2
- **Operating Systems:** Windows, Linux, MAC OS
- Analog and Digital Electronics

Hermano Miguel “La Salle” High School, 2003 - Physics/Math

- Worked as Visual Basic programmer at the “Center of Information Systems Studies” Sponsored by the University of Cambridge, 2003
- Studied in the Physics and Math Specialization Program

Languages: **English** – High level of written and spoken English; **Spanish** – Native

Other Accomplishments

Inline Speed-Skating Champion

- **Elite In-line Speed Skater, 2002 – 2011**
 - **Current National Champion** in various speed and distance events
 - Represented National Team at the PrePanAmerican Competition in Rosario, Argentina in 2011
 - Represent Provincial and National Teams for International Competitions from 2002 through 2011
 - Track record-holder for 300-meter sprint, Cuenca, Ecuador
- **Skating Coach**, Sports Federation of Azuay, 2013 (Cuenca, Ecuador)
- **Skating Coach**, Hnos. Martinez Club, 2016 (Cuenca, Ecuador)