Daniel Demonceau - *GIS Engineer*

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GIS DEVELOPER – 8 YEARS OF EXPERIENCE

Passionate | Pedagogic | Customer-Focused | Creative

Committed and Motivated GIS Engineer. 6-year Professional Experience with **Intergraph, ESRI BeLux, Oscars, Quadratic, and Vocus Communications**. Worked as **GIS Consultant, Engineer, Manager** responsible for interoperability testing, **GIS Software Trainer, Demo** Presenter, **blogger** and **GIS developer**. Frequent abroad missions (Aéroports de Paris, ANCFCC Morocco, PCH Luxembourg, Esri Developer Summit Palm Springs, CA, USA). Insatiable **learner** (MOOCs participations). Holds a Master in **General Management** and is willing to take **project ownership**.

o **PostGIS, Oracle Spatial**	o **GeoServer**	o **ERDAS IMAGINE**	o On-site **Consultancy**
o **PL/pgSQL, PL/SQL**	o **OGC Standards** W*(T)S	o OpenLayers 3	o **LRS - Geocoding**
o ArcGIS for Desktop/Server	o **Python, Java**	o Google Maps API	o Strong **Communication Skills**
o **ArcGIS API for JS**	o **QGIS**, AutoCAD, Microstation	o Windows, Linux	o Software **Architecture**
o Python for ArcGIS	o **ERDAS APOLLO**	o **NodeJS**	o Product Trainer
		o Ant, Maven	

CAREER HISTORY

GIS Developer at Vocus Communications (Sydney/Melbourne, Australia)   March 2017 – Now

Vocus is an international telecom company, leader in Australia and New-Zealand for the development of the high-speed fibre network. The company offers services such as Internet, Ethernet, Dark Fibre, IP WAN, Cloud, etc.

Key Contributions

o Conception, development, and maintenance of the GIS infrastructure using exclusively Open Source technologies

Key Projects: Web Map application development using **Node.js, Google Maps, OpenLayers, Leaflet,** and **Bootstrap**, Geodata processing using **PostGIS, PL/pgSQL, Python** and **Mongo**, Quality and Performance Testing using **JMeter, SchemaSpy, Python**

Blogger at themagiscian.com   June 2014 – Now

Insights on Commercial and Open Source GIS tools for solving common spatial problems. The workflows are described in a pedagogic way to be easily reused.

Key Contributions

o **Content Management**, App/Webapp **Developments, Python** scripting, **PostGIS development**, Social Media Management

Key Projects: **Cartographic representation** of the energy consumption of the Plan-les-Ouates (Switzerland, 07/2016)

Senior GIS Engineer at Quadratic (Liege, Belgium), Oscars (Andenne, Belgium)   Oct. 2015 – Nov. 2016

Quadratic is a young development company active in the agro-industry domain and develops **OptAGRI** (http://www.optagri.com/), a CMMS for helping farmers to monitor crops using Copernicus's Sentinel satellite imageries, and to provide ways to better manage logistics in the agricultural domain.

Oscars is an independent Oracle Spatial consultancy company who develops GIP, **The Geo Intelligent Platform**. It tracks **real-time moving objects**, performs **analytics,** and sends out notifications when predefined events occur. The biggest customer is **Aéroports de Paris**

Key Contributions

o **GeoData** geoprocessing with PostgreSQL/**PostGIS, SQL, PL/pgSQL, Python**/pyQGIS Scripting
o **Oracle Spatial consultant** - OBIEE software suite specialist, Georaster
o **GeoData** processing SQL/**PL/pgSQL scripting, QA** Engineer

Key Projects: **Sentinel-2** processing for **OptAGRI** using **PostGIS Raster** analytics capabilities (09/2016-10/2016), **Oracle's OBIEE** implementation (Aéroports de Paris, 10/2015 – 06/2016). **Oracle Georaster** consultancy (SPW, 02/2016 – 06/2016), GIS Consultancy for **GIP** (internal product sold to Aéroport de Liège, 10/2015 – 06/2016). **Oscars representation** (Missions économiques, Infopôle, **Toulouse Space Show, Space Forum** Luxembourg, etc.)

GIS Engineer at ESRI BeLux (Wemmel, Belgium)   Oct. 2013 – Sep. 2015

ESRI is an international supplier of GIS software and it is the market leader. ESRI BeLux is the local distributor for Belgium and Luxembourg for ESRI products and and is mainly focused on **Services** such as **Customer Support, Consultancy,** License Delivering, Presales and **Project Development**.

Key Contributions

- First-line **Customer Support POC** on ESRI Products for English, French and German speaking Customers
- On-site **Consultant – ArcGIS for Desktop**/Server, **ArcGIS API for JavaScript,** Road networks (LRS), quarry industry.
- ESRI products **Presales Demonstrator - Technical Support** for Sales and Presales

Key Projects: **Pothole detection algorithm development** using ArcGIS technologies and Python scripting (BRRC, 02/2014 – 06/2014), **Coaching** on ArcGIS for Desktop/Server with aim of valorisation data in the quarry industry (Carmeuse, LafargeHolcim, Lhoist, 02/2014 – 11/2014), **ArcGIS's Roads and Highways** extension evaluation and implementation (PCH Luxembourg, 11/2013 – 12/2013)

GIS Project Engineer / QA Engineer at Intergraph Belgium (Liege, Belgium)   Oct. 2010 – Sep. 2013

Intergraph/Hexagon Geospatial is a leading engineering and geospatial software developer. The customers are mainly from the public sector. The office in Liege is mainly focused on customer support and provides training on the Geospatial Portfolio Software suite (ERDAS APOLLO, ERDAS IMAGINE, Geospatial Portal, and Geospatial SDI).

Key Contributions

- First-line **Customer Support POC** and **Trainer** on the Intergraph Geospatial Product Portfolio
- Server integration testing **team leader** for all the Intergraph geospatial server products (team of two)
- **Main QA engineer** on the ERDAS APOLLO server product development cycle

Key Projects: Project Manager for the **installation and integration into the company's IS** of ERDAS APOLLO, and trainer for a 3-week training (ANCFCC, 01/2013 – 09/2013; PCH Luxembourg, 01/2013 – 09/2013)

Internship as a Surveyor at Geonius (Gulpen, The Netherlands)   July 2009

Geonius is an international **surveying** company offering **environmental** and **geotechnique** services in The Netherlands

Key Contributions: Assisting the main surveyor in his daily tasks

Teaching Student in Topography at University of Liege (Liege, Belgium)   Sep. 2009 – May 2010

Basic utilization of AutoCAD and practical terrain courses in topography.

EDUCATION

Master in Economic Sciences, General Management at University of Liege (Liege, Belgium)   2011 - 2013

Thesis: "Business plan for the creation of a land surveyor company specialized in drone based applications"

Master in Geographic sciences, Geomatics and Geometrology at University of Liege (Liege, Belgium)   2005 – 2010

Thesis: "Conception of an urban GIS prototype for natural risks management for the town of Bamenda (Cameroon)"

Various MOOCs on Coursera.org   2012 – Now

Project Management: The basics for Success (U. of California, Irvine, 2016), **Successful Negotiation**: Essential Strategies and Skills (U. of Ann Harbor, 2015), Statement of accomplishment in **Gamification** (U. of Pennsylvania, 2012), **Model Thinking** (U. of Michigan, 2012)

MEMBERSHIPS

Association of the surveyors of the province of Liege (named **ARGELg** – Association Royale des Géomètres-experts de Liège), **GAS** (Groupe Astronomie Spa), **AlgULg** (Alumni en Géographie de l'Université de Liège), several Animal Welfare memberships.

HOBBIES AND INTERESTS

Running – Chess – Astronomy – Photography – Travels – Animal Welfare Charity