Pierre-Henry MOREAU

Business/Functional Analyst & Tester

GENERAL INFOS

(+32) 474.80.72.98
28th October 1987, Belgian (EU Subject), single, Driving licence B

pierrehenrymoreau@gmail.com
www.phmoreau.be
http://lnkd.in/D7XAnC

SUMMARY

I am a Civil Engineer in electricity with a proven IT experience in business and functional analysis. During different projects, I have gained expertise in testing. I have a good knowledge in development and also in machine learning algorithms and image processing. During my mission at the European Commission, I had to improve energy consumption of a part of their buildings, since then I developed an interest in this subject.

I am polyvalent, open-minded, able to adapt rapidly to technical tools. I have good analytical and synthetic capabilities.

EXPERIENCE

COST Association
Quality Assurance Engineer
(Freelance Consultant)
09/2015 – 05/2016

Projects and maintenance of web applications that support daily operations, monitoring and reporting of COST Association activities (science networking and cooperation).

- Continuous integration testing (Team City),
- Write, review and execute test cases,
- Defect management, test automation (Selenium IDE).

EVS Broadcast Equipment
Quality Check Engineer
(Freelance Consultant)
03/2015 - 06/2015

- Write, review and execute test cases,
- Migration from TFS to JIRA.

VEOLIA
Environment, Energy and EMAS Responsible & Field Manager
08/2014 - 02/2015

Management of Heating, Ventilation and Air-Conditioning (HVAC) installations of 20 buildings (300.000 m²) of the European Commission (EC) and suggest improvements to reduce consumption (EMAS (Eco-Management and Audit Scheme) methodology).

- Technical assistance to the EC in charge of actions and audits,
- Analyze and improve energy consumption of buildings,
- Develop of a managing tool (Excel VBA),
- Manage energy metering and monitoring, from a remote management system,
- Selection of equipment, vendor comparison and preparation of estimates,
- Methodology & tools: PEB, URE, EMAS, ISO 9001, GMAO, Excel (VBA).

ACV - CSC
Functional Analyst
09/2012 - 03/2014

Maintenance of an application that manage the payment of unemployment benefits

- Write functional analysis,
- Write, review and execute test-cases,
- Write technical analysis and formal description of operations,
- Perform functional SQL optimization.

ELIA
Business/Functional Analyst & Tester
(Consultant)
05/2011 - 04/2012

Maintenance of the nomination exchange program (NxPRO), an application where each electricity provider communicates the schedule of electricity production (injection), consumption (offtake), import, export and sell to another electricity provider.

- Consolidate business requirements,
- Write functional analysis and write documentation (for the clients),
- Write, review and execute test-cases,
- Reproduce bugs (from the business) step by step to help developers to resolve it,
- Manage change request.

STUDENT JOB

During **2009**	Student Instructor	at	**University of Liège**
2008-2009	Private tutor in science and mathematics		
August 2008	Temporary work (night shift)	at	**La Lorraine Bakery Group**
August 2007	Temporary work (night shift)	at	**La Lorraine Bakery Group**
2004-2005	ICT Director	at	**e-cube (Liège)**

Finalist of the Mini-Enterprise competition and winner of several contests, e-cube was a Belgian Mini-Enterprise established at Liège composed of 12 associates from the **Collège Saint-Louis**.

EDUCATION

University of Liège
Liège-Belgium
2008-2010

Master in Electrical Engineering

Final thesis: « Detecting the Presence of People in an Image », Prof. Van Droogenbroeck

The first task was to extracts characteristics (HOG) of a set of images in order to calculate a predictive model using a machine learning algorithm (extra-trees). The second task was to compare the efficiency of my method with published results.

University of Liège
Liège-Belgium
2005-2008

Bachelor in Electro-Mechanical Engineering

Representative for student electrical department from 2006 to 2010

CERTIFICATIONS

12/2014	VCA - Basic Elements of Safety SCC– AIB-Vinçotte – Belgium
12/2010	Renewable Energies – Walloon Region – Belgium
11/2010	Energy Advisor (PEB, URE, IR imaging, PAE) – Walloon Region – Belgium

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ACADEMIC PROJECTS

During my studies, I worked on several group projects on the following subjects:

- ✓ **Image Processing, Telecommunications & Optimization** (as example see here 2 projects)
  - o Detect and track people though a network of cameras (SDL, Ubuntu)
  - o Optimization algorithm for the distribution of students between schools
- ✓ **Electronics** (as example see here 2 projects)
  - o DC-DC boost converter with snubber and PID control (power electronics)
  - o Line follower robot (IR sensors, H bridges, ASM on PIC chip)
- ✓ **Electro-Mechanics** (as example see here 2 projects)
  - o Modelling of a double-glazing with IR reflectors (Engineering Equation Solver)
  - o Modelling of the water hammer using iterative calculation (Excel)

TECHNICAL IT SKILLS

Analysis	Enterprise Architect 10.1 (EA)
Testing	Selenium IDE, Ranorex Studio 5, WCF Test Client
Project Methodology	Agile, SCRUM
Project Management tools	Team Foundation Server (TFS), JIRA
Web	PHP 5 (GD2 lib), HTML, CSS, JS, Web Services (SOAP/PHP), Wordpress, Dreamweaver, phpMyAdmin, vBulletin, phpBB, Google Maps JS API V3
Development languages	C/C++ (OpenCV & SDL lib), Pascal, ASM, Java, Excel (VBA), C#
Development tools	Visual Studio 2010 Express, Sharp Develop
Database	MySQL 5, MS SQL Server 2012, MS Access
Operating Systems	Windows, Linux, android
Network	TCP/IP, PoE, Firewall, NAT
Environment	Windows 7, EVS XT servers, UML, .NET
Office	MS Office, Sharepoint, Link, Open-Office, LaTeX (LyX, MiKTeX)
Other	VM Ware, Eclipse, XML Spy, Samcef Field, FEM, PID controller – Pole Placement, PCB (Altium)

LANGUAGES

FRENCH

ENGLISH

DUTCH

LEISURE ACTIVITIES

- ✓ Youth Movement (team leader)
- ✓ Own creation of private websites
  - • **Geopti**: optimize search for places (in progress)
  - • **Timeline**: planning, tasks & email reminders
  - • **Ski2007**: Photo gallery
- ✓ Interests: Numismatics, biking, news.