

# PIERRE EL KHOURY

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## Objective

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Enthusiastic Electrical and Computer engineer with past experience in web and applications development and design. Looking forward to expand my knowledge in utilizing engineering tools and developing my technical skills in the engineering field.

## Education

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- **American University of Beirut**
  - Bachelor in Electrical and Computer Engineering (*Class of 2010*)
  - Masters in Engineering Management (*Start Date: September 2010*)
- **Lebanese Baccalaureate: General Sciences** (*July 2006*)
- **College Maristes Champville** (*1991 - 2006*)

## Experience

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- **Acteos SA – Senior Developer**  
(*February 2011 till Present*)
  - Acteos is a French Independent Software Vendor with over 25 years of experience in the **Supply Chain Management** industry. They develop software and hardware products to assist customers through managing their stock availability and mobility.
  - I am working as part of the production team over **LOGIDRIVE**, which is a **Warehouse Management System**, one of three main products by Acteos, and the most prominent one (about 80% of the company's finance is based on it). We incorporate different clients' requirements into our environment, and perform meticulous testing so that we ensure customer satisfaction.
  - The current version of **LOGIDRIVE** is written in **Oracle PL/SQL**, using **Oracle Forms and Reports** and an **Oracle database**.
- **AUB - CNS (Computing and Networking Services - American University of Beirut)**  
**Sharepoint WCMS (Web Content Management System)**  
(*Part Timer October 2008 - January 2011*) - (*Freelancer February 2011 - September 2011*)
  - The project required migrating websites from a unix server to a new **SharePoint** server 2007.
  - The migration process was done by configuring and using **MetaLogix**.
  - Purpose of the project: to manage all AUB departmental websites under a common format, and to provide more administrative control to Webmasters of the AUB website.
  - The project required unifying AUB's website under a common template.
  - It included redesigning several departments' WebPages, due to compatibility issue with the general template (**HTML** and **CSS**).
  - I wrote a manual on how to use Metalogix to facilitate the task for the new employees and to ensure the consistency and quality of the migration process.
  - I trained new employees on Metalogix and SharePoint.
  - I trained the departments on how to use SharePoint to manipulate their websites.

- **Consolidated Contractors Co. LLC – Oman**  
**Information System Department** (*July - August 2009*)
  - Hands on experience with local networks, how different projects at different locations are connected to each others, how they are connected to the global company's network and how they are connected to the Internet.
  - Involved building a complete network from zero. The network at the camp and the offices is designed and applied on site.
  - This internship required me moving between five different projects, comprehend the network topology and understand the requirements of each project.
  - I was involved in technical work related to networking, and software programming for internal use by projects (Indexed Servers Search and others, mainly using **C#** and **ASPX**).

## Latest Academic Researches and Projects

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- **Effect of using Transshipment as a vertical area division in Delivery Systems**  
(*January 2011*) [click here for PDF](#) – [click here for Simulations](#) – [click here for PowerPoint presentation](#)
  - This is a very interesting study conducted as part of the graduate course *Network Flows Algorithms and Optimization* (ENMG616).
  - Using a simplified Manhattan Road mesh as a network environment and a limited number of resources (agents), we needed to determine the effect of dividing the network vertically (as a transshipment fence) on the performance (considered to be total delivery time).
  - Through the collected data, we deduced that this type of division was not beneficial to the system.
  - The System was modelled using **C++**, and the graphics were modelled using **OpenGL**.
- **Three Graphics projects using OpenGL** - (*January 2010*) [click here to download project](#)
  - Particles emitter (used as a magical effect in game programming)
  - Analogue Grandfather's Clock with pendulum, which displays time correctly and allows changing the system's time by moving the clock's hands. The clock is entirely built with a unit square and a unit circle using transformations in OpenGL.
  - 3D Maze game with collision detection with the walls and camera collision detection, using a .obj file as an avatar which moves and looks in all directions.
- **Research paper on the physical characteristics of the oriental Oud music instrument**  
(*April 2009*) [click here for PDF](#) – [click here for excel Simulation results](#)
  - Research conducted in collaboration with the Lebanese Higher National Conservatory of music.
  - Used **ProTools** to record the Oud sound.
  - Used **LabView** to get the frequency components of the recordings.
  - Successfully got and drew plot of the **Frequency Response** and **Radiation Pattern** of the Oud.

## Skills

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- **Linguistic Skills** - Arabic, English, French
- **Artistic Skills**
  - Revealed mostly through Soundtrack Design, Web design and Movie Making.
  - Piano 6<sup>th</sup> year level - Institut Professionnel Saint Michel Bikfaya.
  - Oriental Singing 4<sup>th</sup> year level – Lebanese National Higher Conservatory of Music (ranked first).
  - Oud 2<sup>nd</sup> year level - Lebanese National Higher Conservatory of Music (ranked first).