

Abdallah DEEB CV

Place of Birth : Tripoli-North Lebanon.
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Personal Web: <http://www.virtual-vision.net>

Research Engineer in 'INRIA & LORIA' Research Center -[MAIA Team](#) - France. Since 2008.

Site: <http://www.maia.loria.fr>

FORMATION

2002 – 2007 Engineering Diploma in computer science and communication from the Lebanese University, Faculty of Engineering, Tripoli, Lebanon.

EXPERIENCE

LORIA & INRIA - Nancy France

Since 2008.

- In the PREDICA Project (prédiction de chutes chez les personnes âgées en perte de mobilité) (Fall prevention for elderly people)
 - Development of 3D human motion tracking system using particle filtering from a video sequence:
 - Development of a stereo vision system for calibrating cameras automatically using Epipolar geometry.
 - Implementation of different likelihood functions for the Bayesian network (pixel count intersection and chamfer distance) on the graphic card using GPGPU technology with CUDA and GLSL languages.

Environment: Visual C++ .NET, OpenGL/GLSL, CUDA, OpenCV, 3dsMax, Cameras, Matrix vision mvSIGMA Acquisition card, Nvidia Geforce 8800 GTX (Tesla Architecture).

Reference : <http://www.loria.fr/~charp/projets/Predical/index.html>

Demo : http://www.youtube.com/watch?v=J_kxK1hAYNs

LORIA & INRIA – Nancy France

Since 2008.

- In the CRISTAL project (Cellule de Recherche Industrielle en Systèmes de Transports Automatisés Légers) :
 - Development of a cross platform 3D engine allowing the:
 - Localization and navigation of the vehicle in a 3D model using GPS coordinates.
 - Simulation of a train set of multiple vehicles where all the vehicles follow the head without pilot.
 - Engine features:
 - Per Pixel Lighting, Bump/parallax mapping, Cube mapping, Reflections/Refractions, Texture splatting for terrains, Space Partitioning using Octrees, Frustum Culling, Full integration of OpenDynamicsEngine for physics, .3ds .obj and .ms3d models loader.

Environment : C/C++, Cmake, OpenGL/GLSL, ODE, Cal3D, OpenCV, GPS SAGITTA THALES.

Démo : <http://www.youtube.com/watch?v=dXmhYMTjTZE>

LORIA & INRIA – Nancy France

March to July 2007.

(Final Year Project for obtaining engineering diploma.)

- In the MOBIVIP project (Public Individual Vehicles for Mobility in center town) :
 - Realization of a data acquisition platform from sensors (GPS, Telemeter, camera, INS).
 - Development of a real time acquisition driver to gather telemetric data.
 - Development of a real time acquisition driver for fiber optic Gyro.
 - Installation and configuration of the various sensors on a test vehicle (Cycab).

Environment : C++, GNU Linux, OpenGL/SDL, GPS SAGITTA THALES, telemeter SICK LMS 291, camera MARLIN, DSP 3000 Fiber Optic Gyro.

UTT - Troyes France

August to July 2006.

- Development of a web interface in order to memorize the knowledge and the information acquired and produced during the realization of the projects.

Environment : HTML, PHP, MySQL, CSS.

Personal projects

- Development of an augmented reality system using weak perspective camera model with POSIT algorithm :

Environment : C++, OpenGL, OpenCV.

Demo : <http://www.youtube.com/watch?v=Sr2QPG0dR-8>

PERSONAL Skills

| | |
|-------------------------------------|---|
| <i>Programming</i> | C, C++ /STL, C#, Java, Matlab & Simulink. |
| <i>3D programming</i> | OpenGL/GLSL, OpenSceneGraph. |
| <i>Parallel Programming (GPGPU)</i> | CUDA, GLSL. |
| <i>Physics engine</i> | Open Dynamics Engine. |
| <i>Character Animation</i> | Cal3D. |
| <i>Image processing</i> | OpenCV. |
| <i>Modeling</i> | 3DSMAX 9, MilkShape. |
| <i>Networking</i> | C++ Sockets. |
| <i>Database</i> | SQL, MYSQL, Access. |
| <i>Web programming</i> | HTML, PHP, CSS. |
| <i>Revision control system</i> | SubVersion SVN. |
| <i>IDE</i> | Visual Studio .NET 2005, Kdevelop, Eclipse, QT, . |
| <i>Operations system</i> | Windows 2003 Advanced server, XP, Linux Ubuntu. |

Courses

- Signal processing** Analog signal processing, Digital signal processing, Advanced signal processing, Image processing, Information theory, Coding theory, Neural network.
- Telecommunications** Electromagnetic wave, Analog communication, Digital communication, Optical communication, Antenna, Radar, Satellite, GPS, Multimedia,
- Network** CISCO (CCNA 1, 2, 3, 4), OSI Layer, Ethernet, Token Ring, Token Bus, TCP/IP, LAN, WLAN, WMAN, Ad-hoc, PSTN, C7, GSM, UMTS, ATM, SDH, PDH, SSL, IPsec, ISAKMP, VoIP, administration under Windows 2003, administration under Linux.

Languages

| Languages | Spoken | Written | reading | hearing |
|------------------|------------------|------------------|------------------|------------------|
| Arabic | <i>Excellent</i> | <i>Excellent</i> | <i>Excellent</i> | <i>Excellent</i> |
| French | <i>Excellent</i> | <i>Excellent</i> | <i>Excellent</i> | <i>Excellent</i> |
| English | <i>Excellent</i> | <i>Excellent</i> | <i>Excellent</i> | <i>Excellent</i> |

Interest

- *Sports.*
- *Internet.*