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| Via Isonzo 136  Padua, PD, 35134 | | **Mauro Donadeo** | | Cell: (+39)346 784 6243  mauro.donadeo@gmail.com |
| (Italy)  **Employment** | | | | |
| **Research grant** | **University of Padua - DEI** | | | **July 2012 - Today** |
| Creation of a library for hand detection and hand gesture recognition, through images acquistion with low cost devices (i.e. Microsoft Kinect). The acquisition system was developed in C++ with the libraries OpenCV, OpenNI, VTK, PCL e Qt. | | | | |
| **Software engineer** | University of Padua - DPG. | | | Jan. 2012 - June. 2012 |
| Development of a gesture recognition system with images acquired through MS Kinect. The system was developed in C++ with the libraries OpenCV and OpenNI. The visual feedback was reproduced with Unity 3D. This project was developed within the CEEDs European Project (http//ceeds-project.eu). | | | | |
| **Web designer** | **SimNumerica srl.** | | | **Nov. 2011 - Dec. 2011** |
| Creation web pages of company with Drupal CMS. Focus on: integration and adaptation of login-module, news-slider, ticketing module and creating a wiki for administrator users. | | | | |
| **Computer assistant** | **Certification Courses Office (University of Padua)** | | | **Sept. 2008 - Aug. 2009** |
| Comparison between the didactic database of the University and the Ministerial data. Development of a web application to automate the validation of students classes and study plans. The new system allowed to speed-up generations of diplomas and delivery time by 50%. | | | | |  | **Certification Courses Office (University of Padua)** | **Sept. 2008 - Aug. 2009** |
| **Computer assistant** | **Technical and Network coordination - Regione Veneto** | | | **Dec. 2007 - Aug. 2008** |  |  |  |
| Design and implementation of the portal overnetwork.it based on Joomla CMS with focus on: creation of a system of  ticketing (with mail alert system) and new systems of users profiling. Participation in 802.1x project. | | | | | | | |
| **Education** | | | | |
| **University of Padua** | | | **Department of Information Engineering** | **Sept. 2004 – Oct. 2011** |
| * Master's Degree in Computer Engineering, October 2011. Thesis: *3D Real time video conferencing system based on Microsoft Kinect sensor: design and implementation* (score of 92/110) * Bachelor's Degree in Computer Engineering, April 2004. Thesis: *Java Simulator for the Lego NXT robotic system: design and implementation* (score of 90/100) * Erasmus at Facultat D’Informàtica de Barcelona in *Universitat Politecnica de Catalunya* (a. y. 2009/2010). | | | | |
| **Technical Experience** | | | | |
| **Projects** | | | | |
| * **3D Real time video conferencing system based on Microsoft Kinect sensor: design and implementation (MS thesis project):** development of an application for the videoconferencing using as camera the MS Kinect. The system was structured as a communication client/server. I have adopted and compared two systems to compress the depth and color images Jpeg and Jpeg2000. The images were displayed on a stereoscopic monitor. * **Java Simulator for the Lego NXT robotic system: design and implementation (BS thesis project):** development of a first tool for the interpretation of the byte code for the Lego NXT robotic system. This tool has interpreted the entire set of instructions provided for the firmware 1.05. This has worthwhile for next steps, as the creation of the visual interface for the simulations of simple programs and their testing without the use of the robot. | | | | |
| **Languages and Technologies** | | | | |
| * **Programming**: C++, C, Java, C#(beginner), Php(beginner). * **Platforms**: Linux, Windows. * **Tecnologies**: Visual Studio; MySql, Directx10, OpenNI, OpenGL(beginner), OpenCV, QT4, Unity 3D Game Engine, PCL (beginner), GIT, svn, Latex. * **Language skills**: Italian (native), English (intermediate), Spanish (advanced). | | | | |