

AbdElrahman Shabayek

EDUCATION

- Sept. 2007 – Present **MSc in Computer Vision and Robotics** www.vibot.org
Jointly studied and awarded by:
Heriot-Watt University, Edinburgh, UK www.hw.ac.uk
University of Girona, Girona, Spain www.udg.edu
University of Burgundy, Le Creusot, France www.u-bourgogne.fr
- Oct. 2006 – June. 2007 **Pre-Master in Computer Science** – Very Good with honor
Computer Science Department, Faculty of Computer and Informatics, Ain Shams University, Cairo – Egypt.
- May. 2005 **BSc in Computer Science** GPA 3.52/4.0 (Excellent with honor – First position)
Computer Science Department, Faculty of Computers and Informatics, Suez Canal University, Ismailia – Egypt.

WORK EXPERIENCE

- June. 2005 – Jan. 2006 **Oracle Developer**, The social association automation project , Faculty of Computers and Informatics and Social Association Department, Suez Canal University, Ismailia - Egypt.
- Nov. 2005 – Sept. 2007 **Teaching Assistant**, Computer Science Department, Faculty of Computers and Informatics, Suez Canal University, Ismailia – Egypt.
- Jan. 2006 – Sept. 2007 **ICTP trainer**, ICTP national project, Suez Canal University, Ismailia – Egypt.
- Jan. 2007 – Sept. 2007 **IT trainer**, ORASCOM national project (Educational grants), Faculty of computers and Informatics, Suez Canal University, Ismailia – Egypt.
- Mar. 2007 – Sept. 2007 **QAAP member**, Quality Assurance and Accreditation national Project, Faculty of Computers and Informatics, Suez Canal University, Ismailia – Egypt.
- Nov. 2005 – Sept. 2007 Selected as a member in Instrumentation Quality Assurance teams, Suez Canal University, Ismailia – Egypt.

ACHIEVEMENTS

- Sept. 2007
2007-2009 Erasmus Mundus scholarship awarded by the European Commission.
Total grant 42000 €.

SOFTWARE SKILL

Broad range of software skills under different versions of WINDOWS and LINUX based OSs distributions.
Structured and OOP programming.
Logic programming PROLOG.
Assembly programming.
C/C++ programming under WINDOWS and LINUX
MATLAB, Open CV, OpenGL, windriver, Cosmir educational Robotics software.
Visual Studio (6, 2002, 2003, 2005, 2008) – VC++, VC#, VB
JAVA – J2SE.
Web Development (HTML, JAVA Script, Macromedia MX, PHP).
Database Development (Oracle, SQL server, MySql, Access).

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CERTIFICATES

SIEMENS, Egypt,
July 2004 – Aug. 2004

Training certificate from I&C (Information and Communication) Department for:
1- Business Applications Business Line
2- Enterprise Services

Microsoft Egypt for the
year 2004-2005

Microsoft .NET University Program

Supreme Council of
Universities, Central
Unit of ICT Training
(CUICCT), Oct. 2006

1- Macromedia Dreamweaver
2- A+
Training of Trainers certificates.

ORACLE University,
April 2007

Courses completed in Oracle Database 10g:
1- Introduction to SQL
2- Program with PL/SQL
3- Administration Workshop I
4- Administration Workshop II

MAJOR PROJECTS

Undergraduate

- 1- Statistical package – C/C++
- 2- Matrix Operations – C/C++
- 3- Digital Library – VB6 + Access
- 4- Web Arabization - VB macros
- 5- Graphics Algorithms package – C/C++ , OpenGL
- 6- Simple search engine – PHP/MySql + C/C++
- 7- Hospital Management System – Oracle Developer 6 + Oracle Engine 9i
- 8- Full LAN installation and configuration
- 9- Messenger (MultiClient-Server) – JAVA (GUI + Sockets)
- 10- USB based Communication (Host to Host) – VC# (VS 2003) +
Windriver6 + winAPIs [Graduation Project – Grade: Excellent 199/200]

Postgraduate

Advanced Graphics

Particles simulation – JAVA (J2SE)

3D Digitization

Central Catadioptric Image Formation - Matlab

Real-Time Image Processing

Object Tracking (Hand- counting fingers) in real time - Handle-C, DK Design Toolkit and Celoxica - RC-10 board

Image Restoration, Registration, Filtering, Scaling and other manipulations - C++, OpenCV, under Linux

Image Processing

Scene Segmentation - Region Growing Method - MATLAB
Image Characterization - Texture Analysis - MATLAB
Image Parameterization - Prostate Gland Cancer Detection - MATLAB

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- Pattern Recognition** PASCAL - Visual Object Classification System – MATLAB
Basian Classifier - Discover Fashion in Second Life – MATLAB
- Visual Perception** Self Calibration of Stereo Camera - MATLAB
Corner Detection – A Comparative Approach - MATLAB
Reconstruction from Two Views – Epipolar Geometry - MATLAB
Structure from Motion – Rigid 3D Reconstruction - MATLAB
Solving the Image Correspondence Problem using SIFT - MATLAB
- Autonomous Robots** Autonomous underwater vehicle localization using sequence of sonar images - MATLAB
Robot path planning and decision making – eBuck robot - C
- Polarization** Polarization experiments
- Human Vision** Remote Sensing Project, Estimation of chlorophyll concentration from a given reflectance model – MATLAB
- OTHER SKILLS** Analytical, Organizational and Planning skills.
Social Skills and Competence.
Communication, interpersonal and teamwork skills.
Patience.
- Sports:
Football, Swimming, Climbing, Chess.
- OTHER INTERESTS** Childhood Education.
Publication:
Karima Swelam, AbdElrahman Shabayek. (2005). The role of National Associations in developing the environmental awareness for the Egyptian Child. *Friends of Egyptian Scholars Abroad Association.*
- REFERENCES** Dr.David Fofi, University of Burgundy, Le Creusot, France
David.Fofi@u-bourgogne.fr, <http://www.davidfofi.net>
- Prof. Fabrice Meriaudeau, University of Burgundy, Le Creusot, France
f.meriaudeau@u-bourgogne.fr
- Dr. Robert Marti, Girona University, Girona, Spain
marly@eia.udg.es