

MESFIN ADANE DEMA

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OBJECTIVES

To ameliorate my knowledge in the field of computer vision and robotics utilizing gained educations and experiences in recent high technologies, challenging and versatile environments.

PERSONAL INFORMATION

Date of Birth November 18, 1983
Nationality Ethiopian

EDUCATION

Sept. 2007 – July. 2009 **Erasmus Mundus MSc in Computer Vision and Robotics**
Heriot-Watt University
Edinburgh, United Kingdom.

Main Modules: Data Mining and Machine Learning, Digital Signal Processing, Image Compression and Communication and Image Processing-Introduction

University of Girona
Girona, Spain

Main Modules: Autonomous Robotics, Fundamentals on Robotics, Real Time Image Processing, Scene Segmentation and Interpretation and Visual Perception

University of Burgundy
Le Creusot, France

Main Modules: Biological Basis of Medical Imaging, Human Vision Psychophysics Image Analysis, Infrared Imaging and Physics, Pattern Recognition and Statistics and 3D Digitization.

MSc Thesis Title:
3D reconstruction for Ship Hull Inspection

Nov. 2001 – July 2006 **BSc in Electrical Engineering**
CGPA 3.81 out of a 4 point average (top 5% of class)
Mekelle University
Mekelle, Ethiopia

Main Modules: Communications Systems, Control Systems, Power Systems, Circuit Theories, Digital Logic Circuits, C++, Object Oriented Programming and Applied Mathematics

BSc Thesis Title:
Automatic Fingerprint Recognition System

WORK EXPERIENCE

January 19, 2009– June 19, 2009 **Seebyte Ltd.**
(www.seebyte.com)
Edinburgh, Scotland, United Kingdom

Thesis Internship

Job Description

3D Reconstruction for Ship Hull Inspection

- Programmed in MATLAB and Visual C++
- 3D Reconstruction of Ship Hull for the purpose of inspection using the sonar image and Navigation information.

July 01, 2008– August 31, 2008 **Heriot-Watt University**
Ocean System Laboratory
Edinburgh, Scotland, United Kingdom

Internship

Job Description

2D Sonar Scan Matching for localization of underwater vehicle

- Programmed in MATLAB
- Different scan matching algorithms are programmed and compared using simulated data and real sonar images

July 16, 2006 –Sept. 22, 2007 **Mekelle University**
Science and Technology Faculty
Electrical Engineering Department
Mekelle, Ethiopia

Assistant Lecturer

Job Description

Lecturing for the following courses

- Electrical Installation and Drives
- Power Electronics and Electrical Drives
- Electrical Machines
- Workshop Practice

Final year project Advisor for the following projects

- Automatic fire detector systems
- Automatic Door Lock System using Digital Logic Circuits

July 2005 – Sept. 2005 **Ethiopian Telecommunication Corporations (ETC)**
Broadband and Multimedia Networking Department
Addis Ababa, Ethiopia

Internship

Job Description

Programming Routers and Switches

KEY PROJECTS COVERED

Digital Watermarking
Of Images

Tools: MATLAB

PASCAL Project	Tools: MATLAB
Image Processing	Tools: C++ under Linux Operating System
Open-CV	Tools: C++ and Open-CV under Linux Operating System
Hand Tracking and Finger Counting	Tools: Handle-C
Image Segmentation	Tools: MATLAB
Corner Detection using Harris-Corner Detector	Tools: MATLAB
Camera Calibration	Tools: MATLAB
3D Reconstruction for Transparent Objects	Tools: MATLAB

SKILLS AND ACHIEVEMENTS

Leadership and Teamwork skills	Being the secretary of graduating class of 2005/06 in Faculty of Science and Technology, Mekelle University which needs a leadership skill to organize, convince and critical thinking while making decisions enables me to develop good leadership and teamwork skills.
Communication and Inter-personal skills	Good communication and inter-personal skills as a lecturer and project advisor at Mekelle University where the medium of instruction is English.
Community Development Initiative	Good initiative and active member in creating awareness about HIV AIDS and raising funds for helping children affected by the disease in Mekelle, Ethiopia under "Watering the Flower Campaign".
IT Skills	Excellent proficiency in the Microsoft Suite [Excel, Word, PowerPoint,], and Good programming skills in C++ ,MATLAB ,HANDLE-C ,Open-CV.

AWARDS

2007 –2009	Erasmus Mundus Masters in Computer Vision and Robotics (VIBOT) Scholarship -42000 EURO for 2 years of study
	Electrical Power Engineering at Norwegian University of Science and Technology (NTNU) Scholarship -Not Used

REFERENCES

Dr. Yvan Petillot
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Heriot-Watt University
School of Engineering and Physical Science
Edinburgh, Scotland
United Kingdom

Dr. Fabrice Meriaudeau
(fabrice.meriaudeau@u-bourgogne.fr)
Co-ordinator of Erasmus Mundus VIBOT course
University of Burgundy
Le Creusot, France
