

# M U H A M M A D N A V E E D

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## OBJECTIVE

To be a part of stimulating and invigorating, Research & Development Organization, contributing towards its growth and productivity with a vigor to make things happen

## EXPERIENCE

**May 2003 – Jan 2005** *Teaching Assistant*

National University of Sciences & Technology (Pakistan)

Worked as Teaching Assistant in following courses

1. Electric Circuit Analysis
2. Network Analysis
3. Control Systems
4. Power Electronics

## EDUCATION

**Sep 2007 to Date** *Erasmus Mundus Masters in Vision and Robotics*

Joint Masters Program of Heriot-Watt University (Scotland, UK), Universitat de Girona (Spain) and Université de Bourgogne (France)

In Progress, Expected Completion Date: June 2008

Major Courses:

**Semester 1 (Heriot-Watt University, Scotland, UK):**

Image Processing- Introduction

Image Compression Communication

Data Mining and Machine Learning

**Semester 2 (Universitat de Girona, Spain) :**

Autonomous Robots

Fundamentals on Robotics

Scene Segmentation and Interpretation

Visual Perception

Real-Time Image Processing

**Semester 3 (Université de Bourgogne, France):**

Pattern Recognition and Statistics

3D Digitization

Image Analysis

Infrared Imaging & Physics

Human Vision Psychophysics

Medical Imaging

Biological Basis on Medical Imaging

**Jan 2002 to May 2005** *Bachelor of Mechatronics Engineering*

National University of Sciences & Technology (Pakistan)

Result: CGPA 3.76 / 4

Major Courses:

Introduction to Robotics

Fundamentals of Industrial Control

Control Systems

COMPUTER  
PROFICIENCY

**Programming Skills:** Matlab, Turbo C, Visual Basic, Programming in Assembly & C and Basic Languages for different Microcontrollers. FPGA Programming in HandleC.

**Tools:** Pro Engineer, Keil  $\mu$ Vision 2.10, Orcad Layout, MicroSim PSPICE.

ACHIEVEMENTS

Erasmus Mundus Grand Holder for the course of *Masters in Vision and Robotics*

Participated in ABU Asia-Pacific Robot Contest 2005 held in Beijing, China on 27<sup>th</sup> Aug 2005, as a member of the Pakistan Team.

Participated in All Pakistan Fire fighting Robot Contest 2004 held at College of E&ME (NUST).

Got NUST Academic Scholarship from 2<sup>nd</sup> to 6<sup>th</sup> semester during *Bachelor of Mechatronics Engineering* studies.

THESIS AND  
PROJECTS

**[Masters Thesis** (Université de Bourgogne (France), Expected Completion Date: June 2008)]

*Vision Based Simultaneous Localisation and Mapping for Mobile Robots*. The thesis constitutes study of the state-of-the-art visual SLAM techniques and implementation of a technique for a synthetic dataset.

**[Masters Semester Projects]**

3D Reconstruction using Voxel Coloring

Image Classification (a project based on PASCAL Challenge)

Simulation of Behavioural control of an Autonomous Underwater Vehicle

**[Under-Graduate Final Year Project]**

Design and Fabrication of one Autonomous and one Manual Robot for the ABU (Asia-Pacific Broadcasting Union) Robot Contest 2005 held in Beijing, China. Automatic robots were controlled using Atmel AVR Series Microcontrollers interfaced with sensors and MOSFET based H-Bridge motor drives.

**[Other Projects]**

Design and Development of a **Line Tracking Fire Extinguishing Robot** for the All Pakistan Fire Fighting Robot Contest 2004

ACTIVITIES

Attended **EFFECTIVE COMMUNICATION – A TOOL TO EFFICIENCY**, a three day workshop held at College of E&ME, Pakistan from 18<sup>th</sup> - 20<sup>th</sup> July, 2003.

PERSONAL  
INFORMATION

Date of Birth: June 30<sup>th</sup> 1983

Nationality: Pakistani

REFERENCE  
PERSONS

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