
Date of Birth:	01/09/1983	Nationality:	Pakistan
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Career Aim

Dedicated for creating stimulating and enriching learning environments to provide students with a solid educational foundation in the field of Electrical Engineering.

Academic

March 2011	University of Engineering & Technology, Lahore M.Sc. Electrical Engineering (E & C) Thesis: Design and Implementation of an Intelligent Controller for Wheeld Mobile Robots
Dec 2004	University of Engineering & Technology, Lahore B.Sc. Electrical Engineering (E & C) Thesis: Microcontroller Based Controlled Rectifiers Training Module for Power Electronics Laboratory
August 2000	Govt. College, Lahore F.Sc. Pre Engineering
July 1998	Govt. High School, Town Ship, Lahore Matriculation with Science Subjects

Field Of Interest

Application of Soft Computing Techniques to problems in Robotics, Control & Power Electronics

Computing Skills

Programming:	I have extensive experience of programming microcontroller ATMEL 89C51 and PIC16F877 in C .I also have knowledge and experience of other languages including MATLAB, JAVA & Assembly.
Applications:	I am proficient in using Windows . I also have experience using Auto Cad, Proteus & Orcad (PSpice).

At work...

Jan 2005- Dec 2005:	University of Engineering & Technology, Lahore Worked as a Research Associate in Electrical Engineering Department. Duties include developing microcontroller and microprocessor based Training Modules for Control Systems, Power Electronics and Industrial Electronics Laboratories.
Jan 2006- June 2006:	The University of Lahore Worked as Lecturer in Electrical Engineering Department. Subject Taught (Theory & Practical) : Basic Electrical Engineering
June 2006- To Date:	University of The Punjab Lahore Working as Lecturer in Electrical Engineering Department. Subjects (Theory & Practical) Taught: Electrical Circuits -I, Electrical Circuits -II, Electronic Devices & Circuits,

Electromechanical Systems, Microprocessors & Computer Interfacing, Algorithms & Numerical Techniques, Introduction to Power Engg., Power Electronics, Embedded Systems, Radar & Navigation Systems

Competitions Supervised

I have supervised the students in many National and International Contests which are regularly organized by various Engineering Institutions in Pakistan including Circuit Design Competition, Microcontroller Interfacing Competition, Hardware Project Exhibition, Mobile Robots Competition, Technical Paper Competition, Best Idea Design & Implementation Competition and students have won **37** prizes so far in these contests under my supervision.

Publications

- [C1]. "Fuzzy Logic Based Path Tracking Controller for Wheeled Mobile Robots," Proc. International Conference on Intelligence & Information Technology, Lahore, Oct 28-30, 2010 (To appear in IEEEExplore).
- [C2]. "Design and Low Cost Implementation of a Fuzzy Logic Based Controller for Wall Following Behavior of a Mobile Robot," Proc. 2nd International Conference on Signal Processing Systems, Dalian China, July 7-9, 2010 (Online Available @ IEEEExplore).
- [C3]. "GPS-GSM Integration for Enhancing Public Transportation Management Services," Proc. International Conference on Telecom Technology and Applications, Bali, Indonesia, March 19-21, 2010 (Online Available @ IEEEExplore).
- [C4]. "A Self Teaching Image Processing and Voice Recognition Based Intelligent and Interactive System to Educate Visually Impaired Children," Proc. 2nd SPIE International Conference on Digital Image Processing, Singapore, Feb 28-30, 2010 (Online Available SPIE Digital Library).
- [C5]. "Ball-Scorer: Design and Fabrication of a Ball Scoring Robot," Proc. 2nd International Conference on Computer and Automation Engineering, Singapore, Feb 26-28, 2010 (Online Available @ IEEEExplore).
- [C6]. "A Low Cost Microcontroller Implementation of Neural Network Based Hurdle Avoidance Controller for a Car-like Robot," Proc. 2nd International Conference on Computer and Automation Engineering, Singapore, Feb 26-28, 2010 (Online Available @ IEEEExplore).
- [C7]. "Microcontroller Based Low Cost Controlled Rectifiers Training Module for Power Electronics Laboratory," Proc. International Conference on Signal Acquisition and Processing, Bangalore, India, Feb 9-10, 2010 (Online Available @ IEEEExplore).
- [C8]. "Design and Development of an Image Processing Based Adaptive Traffic Control System with GSM Interface," Proc. International Conference on Machine Vision, Dubai, U.A.E., Dec 28-30, 2009 (Online Available @ IEEEExplore).

Referees

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