



## SAEED UR REHMAN TURK

PHD STUDENT: UNIVERSITY OF MANAGEMENT  
& TECHNOLOGY LAHORE, PAKISTAN  
FACULTY MEMBER: DEPARTMENT OF  
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### SUMMARY

A creative computer scientist with diversified; academics, industry, and software systems development experience in academic, research and engineering environments. Possess continuous record of accomplishment with extensive experience in applying software engineering/computational methods in the area of Scientific Computing, Digital Systems and Computational Logic.

- Proven skills in algorithm and system development, programming, teaching, and interpretation of complex computational and scientific systems.
- More than 15 years of experience of computer and engineering sciences, telecommunication department, and advance computer engineering labs.

### EDUCATION

#### **PhD in Computer Science (Course work under completion) ID: F2022288009**

University of Management & Technology Lahore. (UMT). 2022 to date.

Course Work Completed: Theory of Advance Software Architectures, Deep learning, Information Retrieval, NLP, Data Mining, Topics in Computer Engineering.

**Focused on Computational Linguistics, aided with deep learning methods.**

#### **MS. Computer Science**

University of Management & Technology Lahore. 2006-2009. GPA: 3.52

#### **Master in Computer Science (MCS).**

Hamdard University (ILM Lahore) 1999-2001

Dual Specialization in Software Engineering and Communication Systems. GPA: 3.58

***Gold Medalist.***

### **Domain of research and study.**

- Computational Linguistics and knowledge extraction, especially in Urdu Language.
- Computational Logic and formal methods.
  - System Modeling, Simulation and verification
- Machine Learning and Knowledge discovery systems.
- Artificial Intelligence.
- Soft Computing: Paradigms and Applications.
  - Neural Networks, Associative Memories, Fuzzy Logic, Genetic Algorithms,
- Advance Algorithms.
- Computer Vision.
- Autonomous Control Systems.
- Autonomous Intelligent Robotics.

- Scientific Computing.

## Courses Taught:

- Principles of Programming Languages.
- Compiler Construction.
- Theory of Automata.
- Analysis of Algorithms.
- Data Structures and Algorithms.
- Computer System Architecture.
- Numerical Computing.
- Computational Physics/Scientific Computing.
- Digital System Design.
- Digital Signal Processing.
- Embedded Systems.
- Control Systems.
- Digital Logic Design.
- Discrete Structures, Calculus & Analytical Geometry, Differential Equations, mathematical computing courses.
- Data Visualization, in context with Data Science.

## PROFESSIONAL EXPERIENCE

**ASSISTANT PROFESSOR : Government College University Lahore.**

[www.gcu.edu.pk](http://www.gcu.edu.pk), <http://dcs.gcu.edu.pk/people.html>

**(Department of Physics/Computer Science)**

**(Oct. 2003-Todate)**

Teaching of Programming Languages, Compilers, Analysis & Design of Algorithms, Data Structures & Algorithms, Numerical Computing, Operating Systems, AI, Computer System Architecture, Computer Organization & Assembly, Digital Logic, Visual programming, Computational Physics, Embedded Systems and related courses to BS(CS), BS and M.Sc Physics. Supervision/guidance of thesis and projects, Software development for Scientific applications, Computer Interfacing and control. Established Digital and embedded systems lab in department of Computer Science.

**Lab Instructor: University of Management & Technology Lahore:**

**(Oct. 2006-July 2009)**

In charge of Control Lab. Teaching and labs of Computer System Architecture & Organization, Signals and Systems, Digital Signal Processing, Digital System Design, Control System, Assembly Language. Supervision and Guidance of class and final year projects.

**Visiting Faculty: Punjab University Lahore:**

**(Oct2007-April 2008)**

Computational Physics & Simulation to B.Sc/M.Sc students(Center for High Energy Physics).

**Visiting Faculty: Preston University Lahore:**

**(2004-2005)**

Signals and Systems, Advance Computer Networks, Wireless Application Protocol, Algorithm analysis, Digital Signal Processing.

**Visiting Faculty: APTEC Institute Lahore:**

**(Feb-July 2006)**

Teaching of Digital Signal Processing, Control Systems, Computer Networks.

**Visiting Faculty Member: NICON Institute of Computer Sciences**

**(Feb 2004- May 2004)**

Teaching of Visual C++, Digital Logic Design, Discrete Mathematics.

## CERTIFICATES & AWARDS

1. Hamdard University Gold Medal in MCS 2001
2. First Position in All Pakistan Software Competition (Sept 2002): Moving Object detection and automatic camera position control towards moving objects (MCS Final Project).