



# Dr. Muhammad Bilal

**Lecturer IET, Final Project Coordinator & Industrial Training Coordinator  
Additional Director ORIC**

Department of Information Engineering Technology  
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## Educational Profile

- **Doctor of Philosophy (PhD) in Electrical Engineering**, CECOS University of IT and Emerging Sciences Peshawar.
- **Master of Science in Computer System Engineering**, University of Engineering and Technology Peshawar, Nov 2007-OCT 2013.
- **Bachelor of Science (BSc) in Computer System Engineering (Hons.)**, University of Engineering & Technology Peshawar, Pakistan, Jan 2003-Sept 2007.
- **Faculty of Science (FSc) in Pre-Engineering**, Board of Intermediate & Secondary Education Peshawar, 1<sup>st</sup> Division, 2002.
- **Matric (Science Group)**, Board of Intermediate & Secondary Education Peshawar, Pakistan, 1<sup>st</sup> Division, 2000.

## Professional Profile

- **Lecturer** (September 23, 2021 – Till date)  
Department of Information and Engineering Technology, UOT Nowshera.
- **Additional Director ORIC** (May 26<sup>th</sup>, 2022– Till date)  
Office of Research Innovation and Commercialization, UOT Nowshera.
- **Final Project-Coordinator** (September 26<sup>th</sup>, 2021– Till date)  
Department of Information and Engineering Technology, UOT Nowshera.
- **Industrial Training Coordinator IET** (September 26<sup>th</sup>, 2021– Till date)  
Department of Information and Engineering Technology, UOT Nowshera.
- **FYDP-Coordinator** (March, 2015– 21 September 2021)  
Department of Electrical Engineering, CECOS University of Information Technology and Emerging Sciences, Peshawar, Pakistan.
- **Lecturer** (August 02, 2007 – 21 September 2021)  
Department of Electrical Engineering, CECOS University of Information Technology and Emerging Sciences, Peshawar, Pakistan.
- **Internee** (May 2005 - July 2005).  
North West Research (Nuovo System Inc Co).
- **Internee** (May 2004 - July 2004)  
First national Equities

## Research Interests

Pattern recognition, Image Compression, Pose estimation, Communication technologies

## Research Articles

1. Javed, Muhammad Haris, Muhammad Ali Sikandar, Waqas Ahmad, Muhammad Tariq Bashir, Raid Alrowais, and Muhammad Bilal Wadud. "Effect of various biochars on physical, mechanical, and microstructural characteristics of cement pastes and mortars." Journal of Building Engineering (2022).
2. Bilal, Muhammmad, Zahid Ullah, and Ihtesham Ul Islam. "Fast Codebook Generation Using Pattern Based Masking Algorithm for Image Compression." IEEE Access (2021).
3. A. Qazi, Z. Ullah, K. Rehman, M. H. Khan and M. Bilal, "Optimization of access latency in DRAM," 2016 International Conference on Computing, Electronic and Electrical Engineering (ICE Cube), Quetta, 2016, pp. 163-168.
4. M. Khan, Bilal Wadud et al., "The effect of malicious nodes on Tor security," 2015 International Conference on Applied Research in Computer Science and Engineering (ICAR), Beirut, 2015, pp. 1-5.
5. M. Bilal Wadud et al. Model-based Pose Estimation Using Genetic Algorithm for Obstacle Avoidance, International Conference on Intelligence and Information Technology (ICIIT 2010)

## Professional Affiliations

- Registered Engineer with Pakistan Engineering Council (PEC reg. No.: COMP-4397).

## Awards

- Winner of COMPPEC 2022 in IoT and Digital System (supervisor)
- Best supervisor award 2013 Electrical Department CECOS University
- Best Teacher award 2010 CECOS University
- Merit Scholarship awarded by the University of Engineering & Technology, Peshawar, Pakistan in all four years of B.Sc. Engineering.

## Research Grants

- Bomb disposal Robot  
Funded by ICT (NGIRI) Ignite 2016
- Accident detection and alert system  
Funded by ICT (NGIRI) Ignite 2016
- Vehicle theft detection and jamming Immune system  
Funded by ICT (NGIRI) Ignite 2019
- Gesture controlled quadcopter  
Funded by ICT (NGIRI) Ignite 2019
- Prosthetic leg using flex sensor  
Funded by ICT (NGIRI) Ignite 2020

## Supervision

- **MS Students**
  - Supervised: 1
- **BS Students**
  - Supervised: 18

## Computer Skills

- **Programming Languages:** C, C++, Visual C++ (Win 32 API programming), Java (network programming), Arduino IDE
- **Tools:** Microsoft Word, Microsoft Power Point, Microsoft Excel, MATLAB, Spice, Hspice, Electronic Workbench, Dreamweaver, Dia, Origin, LaTeX, Xilinx Design Suite.
- **Operating Systems:** Installation, troubleshooting, and daily use of Window (10,8,7), Linux
- **Computer Networking:** Routing configuration and troubleshooting