Hasan Tahir Abbas

CONTACT INFORMATION	212-H WERC Texas A&M University College Station, TX 77840, USA Linkedin Profile: **Hasan Tahir Abbas**	+1 979 422 5347 hasantahir@tamu.edu

EDUCATION

Texas A&M University, College Station, TX USA — GPA 4.0

PhD, Electrical Engineering, — Fall 2012 - present

- Supervisor: **Dr. Robert D. Nevels**

University of Engineering & Technology, Lahore, Pakistan — 76.4 %

BSc (Hons.), Electrical Engineering with major in Telecommunication, Aug 2009

RESEARCH INTERESTS

Optical Nanoantennas, Terahertz Antennas, On-chip Antennas, Nanophotonics, Numerical Methods in Electromagnetics

WORK EXPERIENCE

Substitute Instructor — 2014 - present
Taught Electric & Magnetic Fields, Applied Electromagnetic Theory
Department of Electrical & Computer Engineering,
Texas A&M University, College Station, TX USA

Graduate Research Assistant — March 2013 - present
Electromagnetics & Microwave Laboratory,
Department of Electrical & Computer Engineering,
Texas A&M University, College Station, TX USA

- Supervisor: **Dr. Robert Nevels**

- Research Activities:
  - Sommerfeld Integral Analysis of two-dimensional Terahertz plasmonic structures.
  - Design and simulation of resonant subwavelength structures.
  - Semiconductor based terahertz antennas

Lecturer — Fall 2009 - Summer 2012
Department of Electrical Engineering & Technology,
University of Engineering & Technology,
Lahore, KSK Campus, Pakistan

PROFESSIONAL MEMBERSHIPS

Student Member

- IEEE Antennas & Propagation Society — Since 2012

- IEEE Microwave Theory & Techniques Society — Since 2013

- IEEE Photonics Society — Since 2013

Professional Engineer

- Pakistan Engineering Council

PUBLICATIONS   **Book Chapter**

Nevels, R. D., **Abbas, H. T.** , "Optical Nanoantennas." to appear in *Handbook of Antenna Technologies*, Z. N. Chen, Ed, Heidelberg: Springer; 2016.

ACHIEVEMENTS
- Fulbright Scholarship   2012
  Awarded the prestigious scholarship to acquire PhD degree

- Best Lecturer, UET Lahore, KSK Campus   2010
  Rated the best teacher of the department by colleagues and students

- National Physics Talent Contest   2004
  Short-listed nationally among the best high-school physics students

TECHNICAL SKILLS AND COMPETENCIES
- **Programming Languages**: C, C++, MATLAB, Assembly

- **Operating Systems**: Microsoft Windows, Linux

- **Utility Softwares**: Microsoft Office, LaTeX, Adobe Photoshop, Mendeley

- **Simulation Tools**: CST Studio Suite, HFSS, ADS, COMSOL Multiphysics, Lumerical FDTD

REFERENCES
- **Dr. Robert Nevels**   nevels@ece.tamu.edu
  Professor at Department of Electrical & Computer Engineering, Texas A&M University
  PhD Supervisor

- **Dr. Asim Loan**   aloan@uet.edu.pk
  Professor at Department of Electrical Engineering, UET Lahore
  Senior Design Project Supervisor

- **Dr. Muhammad Kamran**   mkamran@uet.edu.pk
  Professor at Department of Electrical Engineering, UET Lahore
  Chairman of the Department at KSK Campus