

Shobit Agarwal



Contact

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Languages

English, Hindi, Punjabi,
Italian(neophyte)

Software

ANSYS HFSS, CST MWS,
Keysight ADS, MATLAB

Hardware

Vector Network Analyzer,
Spectrum Analyzer,
CNC machines

Objective

Seeking an opportunity to turn mirror into windows and thereby educating younger generation minds. To explore invention and innovation possibilities with the formula of hunger, passion, experience, and perseverance.

Education

2019-now	Doctor of Philosophy in Electrical, Electronic and Information Engineering. (Pursuing)	Università di Bologna, Italy
2014-2016	Master of Technology in Electronics & Communication Engineering (9.0 CPI)	The LNM IIT, Jaipur, India
2009-2012	Bachelor of Technology in Electronics & Communication Engineering (70.27%)	RTU, Kota
2005-2009	Engineering Diploma in Electronics Engineering (61.97%)	BTE, Jodhpur, Rajasthan
2005	Secondary Examination General subjects (78.67%)	RESB, Ajmer

Certificates

2017	National Eligibility Test (NET) Qualified for Assistant Professor
2017	Graduate Aptitude Test in Engineering (GATE) Qualified with AIR-5830 and 96%ile
2013	Graduate Aptitude Test in Engineering (GATE) Qualified with AIR-6442 and 97.4%ile

Experience

Aug'16-Dec'18	The LNM Institute of Information Technology Research Associate Started exploring new research area under the guidance of Prof. Raghuvir Tomar. The research area was related to RF and Microwave engineering. The project includes designing antennas and RF circuits for different applications viz. Ultra Wide band applications, filters etc. Moreover, I was also engaged in conduction of laboratory sessions for Microwave engineering lab and Basic electronics lab.	Jaipur, India
Jul'14-Jul'16	The LNM Institute of Information Technology Teaching Assistant The main responsibility was handling laboratories and conducting tutorials for undergraduate and postgraduate students. During the tenure I was indulged in Basic Electronics, Signal & Systems using MATLAB, Analog Communication, and Digital Communication laboratories and a course on Digital circuits & systems.	Jaipur, India
2012 - 2014	MANaV CLASSES Faculty Member	ALWAR, India
2011-2012	MODERN INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE Teaching Assistant	ALWAR, India
2019-2010	BALKRISHNA INDUSTRIES LTD. Diploma Engineer Trainee	BHIWADI, India

Projects

2016	Designing and implementation of Adder & Subtractor circuits in Quantum dot Cellular Automata. Masters' Thesis Project	The LNM IIT, Jaipur
2015	Performance Improvement of DS-CDMA System with Successive Interference Cancellation Receiver. Masters' Course Project	The LNM IIT, Jaipur
2014	OFDMA Simulations on GNU Radio. Masters' Course Project	The LNM IIT, Jaipur
2012	Alcohol Detector Based Car Ignition System. B. Tech. Major project	MITRC, Alwar
2011	Microcontroller Based Clapper Switch. B. Tech. Minor project	MITRC, Alwar
2009	Electronic Metal Detector. Diploma major project	GPC, Alwar

Industrial Trainings

May–Jul'12	HINDUSTAN ZINC LIMITED Electronics & Instrumentation Department	Dariba, Rajasthan
May–Jun'11	CETPA INFOTECH PVT. LIMITED Electronics & Communication Department	NOIDA, UP
Jul–Aug'10	HINDUSTAN ZINC LIMITED Capacitive Power Plant for Electricity Generation (CPP)	Dariba, Rajasthan
May 2007	BHARAT SANCHAR NIGAM LIMITED Broadband Department	Alwar, Rajasthan

Achievements

Nov. 2018	Outstanding Scientist in Antennas & Microwave <i>Awarded by World Research Council and IDAMAS Learning Center, Malaysia</i>	
2018	NPTEL Course on Microwave Theory & Techniques <i>Secured All India Rank - 7. The course was offered by Prof. Girish Kumar, IIT Bombay during Aug-Oct 2018.</i>	IIT Bombay, India
2017	NPTEL Course on Microwave Integrated Circuits <i>Secured All India Rank - 1. The course was offered by Prof. Jayanta Mukherjee, IIT Bombay during Jul-Sep 2017.</i>	IIT Bombay, India
2017	NPTEL Course on Antennas <i>Secured All India Rank - 1. The course was offered by Prof. Girish Kumar, IIT Bombay during Jan-Apr'17.</i>	IIT Bombay, India
2015-2018	The LNM IIT Students' Gymkhana <ul style="list-style-type: none">• Received Academic Excellence Award for securing highest GATE Score in Post Graduation batch 2014.• Member of Academic Council from July 2015 - Dec. 2018.• PG Senator and Research Scholars' representative in AC-PGC from July 2015 - Dec. 2018.• PG Senator for Senate 2014 – 2015.	Jaipur, India

Publications

- [1] Shobit Agarwal, Umair Rafique, and Vasu Jain. "Wideband E-Shaped Planar Antenna for Cellular, GPS, and Wireless Applications". In: International Conference on Intelligent Computing and Smart Communication 2019. Springer. 2020, pp. 633–641.
- [2] Shobit Agarwal and Ashwani Sharma. "An efficient analytical model for microstrip spurline band-stop filter design". In: Microwave and Optical Technology Letters 62.5 (2020), pp. 1945–1950.
- [3] Manoj Kumar, Shobit Agarwal, and Ashwani Sharma. A Multi-application Compact Ultra Wideband Vivaldi Antenna for IoT, 5G, ITS, and RFID. Tech. rep. EasyChair, 2020.
- [4] Umair Rafique, Iftikhar Ahmad, Shobit Agarwal, and Vasu Jain. Multiband Planar Antenna for Cellular and Wireless Applications. Tech. rep. EasyChair, 2019.
- [5] Umair Rafique, Hisham Khalil, and Shobit Agarwal. "A Compact Planar Antenna for Super Wideband Applications". In: 2019 Photonics & Electromagnetics Research Symposium-Fall (PIERS-Fall). IEEE. 2019, pp. 3256–3261.
- [6] Umair Rafique and Shobit Agarwal. "A Modified Frequency Selective Surface Band-stop Filter for Ultra-wideband Applications". In: 2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI). IEEE. 2018, pp. 1653–1656.
- [7] Shobit Agarwal and Raghuvir Tomar. "A newly proposed multi-band rectangular patch antenna using defected ground structures". In: 2017 Progress in Electromagnetics Research Symposium-Fall (PIERS-FALL). IEEE. 2017, pp. 31–36.