

## **DUBEY SUHMITA UMESHKUMAR**

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C310, near MMMUT, Divyanagar Nagar extension, Gorakhpur (U.P.), INDIA

### **Carrier Objectives:**

To pursue a challenging career and be part of a progressive organization that gives scope to enhance my knowledge, skills and to reach the zenith place with sheer determination, dedication and hard work.

### **Work experience:**

- **Completed Masters in Technology (M.Tech) in the department of Electronics and Communication (Digital System branch) at Madan Mohan Malaviya University of Technology (MMMUT), Gorakhpur (U.P.) India.**
- Delivered lectures for VLSI system design and assisting practical labs to B.Tech students at MMMUT.

### **Projects and Technical papers:**

#### **B.TECH PROJECTS:**

1. **SMART NOTE TAKER (MINI PROJECT):** A device widely used in communication and sensor area for collecting data in memory chip and retrieving it further using computer system using pen. In this, user can write in air in absence of paper and data is saved in memory which can be retrieved further.
2. **WIRELESS POWER TRANSMISSION (MAJOR PROJECT):** Project emphasizes on the current and future trends of wireless technology used in communication and sensor. Using WPT technique the hustle of wires are reduced with reduction in cost and risk.

#### **M.TECH PROJECTS:**

1. **PERFORMANCE ANALYSIS COMPARISON OF UWB BPF:** Several conventional models of Ultra Wideband Bandpass filters are studied and compared. A novel design is proposed for frequency range of 22-29GHz i.e. millimeter wave range for automotive, sensor and communications.  
**Published in: IEEE WIECON- ECE 2017 conference, Dehradun, India, 2017.**
2. **AN IMPROVED ULTRA-WIDEBAND BANDPASS FILTER USING SPLIT RING RESONATOR WITH COUPLED MICROSTRIP LINE:** This paper incorporates a design proposed using Split Ring Resonator (SRR) with better outcomes of filter parameters like return and insertion losses. This design is mainly applicable for automotive radar system as sensor to detect any obstacle in path and avoid accidents. **Published in: International Conference on Electrical, Electronics, Materials and Applied Science and also to be published in Scopus Index Journal.**
3. **DESIGN OF AN ULTRA-WIDEBAND BANDPASS FILTER FOR MILLIMETER WAVE APPLICATIONS:** The paper incorporates three new filter design to avoid spurious signals from the authenticated signals using different resonators like Split ring resonators, shunt ring resonator and square patch resonator providing enhancement in filter parameters at appreciative level

and applicable for wide area of sensors, automotive etc. **Published in: Journal of Telecommunication, Electronic and Computer Engineering (JTEC).**

- DESIGN OF AN IMPROVED ULTRA-WIDEBAND BANDPASS FILTER USING DEFECTED GROUND STRUCTURE: This involves a filter design for millimeter wave range (22-29GHz) utilizing dual square patches with embedment of defected ground structure (DGS) technique. DGS technique involves designing of a graphical structure on the ground substrate providing enhancement in filter features. **Published in: I Manager's Journal on Communication Engineering and Systems (JCS).**

### **Technical skills and training:**

- HFSS V13 and origin software.
- Completed summer vocational training program at Signal and Telecommunication Training Centre N.E. Railway, Gorakhpur for the period from 10/06/2015 to 09/07/2015 with appreciable performance and received excellence certificate.
- C programming language studied at B.Tech and M.Tech level.
- Performed labs related to digital system, optics and Microprocessor.

### **Educational Qualification:**

Class	Board	Institute	Place	Year of Completion	Percentage	Rank
M. tech (Digital System)	MMMUT	MADAN MOHAN MALAVIYA UNIVERSITY OF TECHNOLOGY (MMMUT)	GORAKHPUR (U.P.)	2018	8.45 CGPA	1 <sup>st</sup> Division Honors
B. tech (Electronics and Communication)	AKTU	INSTITUTE OF TECHNOLOGY AND MANAGEMENT (ITM)	GORAKHPUR (U.P.)	2016	75%	1 <sup>st</sup> Division Honors
Intermediate	CBSE	CENTRAL ACADEMY SCHOOL	GORAKHPUR (U.P.)	2012	65%	1 <sup>st</sup> Division
High School	GUJARAT BOARD	SILVER BELLS SCHOOL	BHAVNAGAR (GUJARAT)	2010	82%	1 <sup>st</sup> Division with Distinction

### **Extra co-curricular activities:**

1. Participated in BAL URJA RAKSHAK DAL PROGRAMME initiated by Government of Gujarat (GOG) for energy conservation in Gujarat in the year 2006.
2. Associated with Economic Growth Association of India and achieved grade 'A' in National Art Talent Search.
3. Anchored and participated in many events held in SciTech 2015 at ITM GIDA Gorakhpur.
4. Participated in Jaipuria Quiz league 2015 held at ITM GIDA Gorakhpur.
5. Placed in Anhad Edutrain Solutions Pvt. Ltd. For the post of Education Evangelist – Digital Marketing, Marketing Analytics at New Delhi in the year 2015.
6. Participated in Annual Debate Competition and awarded with '1<sup>st</sup>' position organized at ITM in on 12<sup>th</sup> Oct. 2015.
7. Volunteered and managed for Discipline Committee as chief member for the convocation event at ITM in 2016.
8. Participated in Malaviya Research Conclave-2017 organized at MMMUT, Gorakhpur during July 8-11, 2017.

### **PERSONAL PROFILE:**

Name: Dubey Suhmita Umeshkumar

Gender: Female

Marital Status: Single

Date of Birth: 25<sup>th</sup> Feb.1995

Nationality: Indian

Father's Name: Mr. Umesh Kumar Dubey

Linguistic Ability: English, Hindi and Gujarati

Permanent Address: C310, near MMMUT, divyanagar extension, Gorakhpur-273010

Personal Strengths: Outstanding communication skill, self-confidence, Optimism, Leadership skills, gregarious personality and hardworking.

**Declaration:** I hereby declare that all the details provided above are true to the best of my knowledge and belief.

DUBEY SUHMITA UMESHKUMAR

DATE: