

# Dr. Nitin Kothari

## MAJOR PERSONALITY TRAITS

A confident, enthusiastic, hardworking and highly motivated engineering graduate who is able to provide key Technical support to Organization

## PROFILE

Currently working as Assistant Professor, in Department of Electronics and Communication Engineering at Techno India NJR Institute of Technology, Udaipur totals of 10 year experience .

## AREA OF EXPERTISE

Analog Electronics, Electronics Devices and Circuits, Microwave Engineering, Optical Fiber Communication, Bio- Medical Instrumentation, Wireless Communication, Digital Communication, Electronic Instrumentation and measurement & Engineering Physics

## PUBLISHED WORK

- “Fan beam Reconstruction Algorithm for Shepp Logan Head Phantom and Histogram Analysis” National Conference on Recent Advance in Wireless communication & Artificial Intelligence Udaipur.
- “3D Image Reconstruction Using X-Rays for CT scan” IEEE xplore International conference on computational Intelligence and Communication network, Gwalior.
- “3D Image Reconstruction”, National conference on Advance in Electrical and Electronics Engineering, Indore.
- “Computer Tomography Uses Cone Beam Algorithm to Reconstruct 3-D Image”, 1st International Conference on Adaptive Computing Technologies in Various Engineering Applications, Jaipur.
- “3D Image Reconstruction Using X-Rays”, National Conference and workshop on Recent Advance in Modern Communication System and Nanotechnology Jaipur.
- “Filter Back projection Algorithm to Reconstruct Image”, National Conference and All India Seminars on Intelligent Motion Control of Electrical Drives, Udaipur.
- “Computer Tomography Image Reconstruction Algorithm”, National Conference on Electronics and Communication Engineering, Gwalior.
- “Multimode Elevator Controller Implementation on FPGA Board”, National Conference on Advance Communication Technologies and Application, Udaipur.
- Design and Implementation of IoT Based Sensor Module for Real Time monitoring of fruit maturity in crop field and in storage , International Journal of Current Microbiology and Applied Science, vol.8, issue 3.
- Design and implementation o IoT based smart Horticulture crop real time monitoring system, International Journal of Advanced Research in computer and communication engineering IJARCCCE, impact factor 6.672, vol.8, issue8.



## CONTACT DETAILS

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## RESEARCH PROJECT

Design and development of sensor-based crop harvesting markers and its integration with wireless sensor networks in Ph.D, ECE

3D image reconstruction using CT scan in M.Tech

## TECHNICAL BOOK PUBLISHED

- *BIOMEDICAL  
INSTRUMENTATION*
- *ANALOG  
ELECTRONICS*
- *ELECTRONICS  
DEVICES*
- *LINEAR INTEGRATED  
CIRCUITS*

## SOFTWARE SKILLS

- P-Spice 8.0
- Multisim 9
- MATLAB R2007b
- Express PCB
- Arduino IDE

## TRAINING PROGRAMS/ CONFERENCES ORGANIZED

1. Certificate of excellence in recognition contribution as Remote Centre Coordinator in the successful completion of the two-week ISTE workshop on “Analog Electronics” conducted by Indian Institute of Technology, Kharagpur. This workshop was held under the National mission on education through ICT (MHRD)
2. Certificate of excellence in recognition contribution as Remote Centre Coordinator in the successful completion of the two-week ISTE workshop on “Basic Electronics” conducted by Indian Institute of Technology, Bombay. This workshop was held under the National mission on education through ICT (MHRD)
3. Local committee member at CSI-IE (i) National workshop on computer networking organized by the computer society of India Udaipur chapter, the Institute of Engineers (India) Udaipur local centre, TINJRIT.
4. Three days National workshop on Microwave and RF Technologies MRT organized by TINJRIT and IEEE student branch worked as workshop treasurer.
5. National advisory committee member, National level conference on Advance Communication Technologies and Applications, GITS.
6. Three days National workshop on Microwave and RF Technologies MRT organized by TINJRIT and IEEE student branch responsibility as a workshop treasurer.
7. Certified for outstanding contribution as conference National organization on Recent Advance in Wireless Communication and Artificial Intelligence sponsored by Technical Education Quality Improvement Programme (TEQUIP), GOI New Delhi.
8. Coordinator for SWAR, Robotics, workshop conducted by Technophilia System in association with Robotics & Computer Application Institute of USA held at TINJRIT. This workshop is an integral part of the Indo-US Robos League.
9. Work as Joint Organizing secretary for International workshop on advance in control system (IWACS) held at Techno India NJR Institute of Technology as a joint.

## LEADERSHIP EXPERIENCE

- Training and Placement officer
- Volunteered Infosys, Hexaware, Einfochip, & more placement drive at TINJRIT.
- ERP Coordinator
- Coordinator for QA/VA course for all Engineering streams
- Treasurer for various National level conferences.

## EXTRA CURRICULAR ACHIEVEMENTS

### Coursera Online Courses

**Coursera** world's best education, partnering with top universities completed **32+** online courses with **100%** grade and **02 specialization courses**.

### NPTEL Online Course Certified.

1. Introduction to internet of things with a consolidated score of **99%** with Elite Gold type of certificate in India Top Topper **5%** through Indian Institute of Technology Kharagpur
2. Principle of modern CDMA/MIMO/OFDM wireless communications final grade **78%** achieved & Elite certified.
3. Sensors and Actuators with a consolidated score of **69%** with Elite type of certificate through Indian Institute of Science Bangalore.

### TATA Steel

Industry 4.0 Certified with **98%** all in first attempt

## **JOB RESPONSIBILITIES**

1. Examiner and paper setter at various universities.
2. External examiner for practical exam at various universities.
3. Guided projects & seminar to UG and PG students
4. Provide training to Technosys System staff how to work with advanced Electronic equipment's
5. Established Remote centre for IIT Bombay at Udaipur zone to trend only faculty member in Basic Electronics courses.
6. Established Remote center for IIT Kharagpur at Udaipur zone to trend only faculty member in Analog Electronics courses.
7. For better understanding the subject biomedical instrumentation conduct three-day visit at GBH American Hospital for 3rd year ECE and EEE branch students.
8. News Letter editorial board committee member and student In-charge for all of Engineering branches, MBA & MCA Department at GITS.

## **TRAINING PROGRAMS ATTENDED**

1. A five days ISTE workshop for coordinators on topic Basic Electronics conducted under the National mission on education through ICT by MHRD, held at the Department of Electrical Engineering, IIT Bombay.
2. A one-week ISTE workshop for coordinators on topic Analog Electronics conducted under the National mission on education through ICT by MHRD, held at the department of Electrical Engineering, IIT Kharagpur.
3. ISTE Workshop on Aakash for education conducted by Indian Institute of Technology Bombay.
4. Two-week ISTE workshop on Signal and System conducted by Indian Institute of Technology Kharagpur. This workshop was held under the National Mission on education through ICT (MHRD).
5. ISTE Workshop on Writing Effective conference papers conducted by Indian Institute of Technology Bombay.
6. ISTE Workshop on Writing Effective conference papers conducted by Indian Institute of Technology Bombay.
7. ISTE Workshop on Research Methods in Educational Technology conducted by Indian Institute of Technology Bombay.
8. International software summit (ISS-13) on "Mastering Uncertainty in Software Industry, Risks, Rewards and reality". This was held in association with IEEE Computer society India council, The Institute of Engineers (IEI) ULC and computer society chapter IEEE Delhi section organized by TINJRIT.
9. Continuing Education & Quality Improvement Programmers (CE&QIP) workshop for coordinators on Basic Electronics conducted by IIT Bombay

## **WEBINAR ATTENDED**

- Six C's for effective teaching
- Draft policy on internet of things (IOT)
- Intellectual property rights
- Project based learning among engineering students –Myths and realities
- Model intellectual property policy for engineering institutions
- One step to transform engineering education system in India
- IOT for smart cities-Dell point of view & many more
- Fourth State of Matter and Its Application

## **COURSES STUDIED SO FAR:**

- Optical Fiber Communication
- Biomedical Instrumentation
- Wireless Communication
- Computer Networks
- Digital Communication Systems

## **COURSES TAUGHT SO FAR:**

- Analog Electronics
- Applied Electronics
- Electronics Devices and Circuits
- Microwave Engineering-I
- Microwave Engineering -II
- Biomedical Instrumentation (B. Tech & M. Tech)
- Wireless Communication
- Optical Fiber Communication
- Antenna and Wave Propagation
- Electronics Measurement and Instrumentation
- Engineering Physics
- Digital Electronics
- Linear Integrated Circuits

10. Two-day International workshop on Mobile & Cloud Computing IW-MCC organized by TINJRIT. This workshop was held in association with IEEE Computer Society India Council.
11. Two days technical training on Design and fabrication of microwave integrated circuits organized by GITS the expert lecture was delivered by the team from CARE, IIT Delhi.
12. Three days technical training FABMIC organized by GITS.
13. Two days International workshop on RF and Microwave Technologies IWRM Tech organized by IEEE MTT-S Delhi Section
14. 27th National Convention On Electronics And Telecommunication Engineers & National Seminar on IP Multimedia Communications (IPMC-2011) organized by The Institute of Engineers (India), Udaipur local centre under the Aegis of Electronics and Telecommunication Division Board, IE (I) in association with SIG-WNs & e-agriculture computer society of India, CTAE Udaipur, TINJRIT and in academic collaboration with IGCA, Foundation of computer science, New York, USA.
15. CSI-IE (I) National workshop on “E-Resources Management for Excellence” at CTAE.
16. National Workshop on Design & Fabrication of Microwave Integrated Circuits, RF software FABMIC.
17. A basic level ARM University program training course on embedded system design and programming Eduvance.
18. Participated in the one week online Faculty Development Programme on Recent Trends in Electronics and Communication Engineering organised by Chennai Institute of Technology.

## ACADEMIC QUALIFICATIONS

S. No.	Qualifying Examination	Specialization	Board/University	Percentage/ OGPA
1	Doctor of Philosophy	Electronics and Communication Engineering	MPUAT	8.14/10 OGPA
2	Master of Technology	Digital Communication System	RTU, Kota	65.68%
3	B.E	Electronics and Communication Engineering	University of Rajasthan, Jaipur	72.72%
4.	Diploma after XII (PCM)	Electronic Engineering	Board of Technical Education, Jodhpur	69.59%

I hereby declare that the above information's are true to the best of my knowledge.

Place: Udaipur

