

PRATIK MHATRE

SUMMARY



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Skill India PCB Design Trainer

SUMMARY

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TRAINING & PLACEMENT CELL CO-ORDINATOR:

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Key Responsibilities:

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TECHNICAL SKILLS

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EDUCATION

PhD - u
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Master of Engineering -
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Bachelor of Engineering -
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EXPERIENCE

Assistant Professor | Vidyalankar Institute of Technology | Department of Electronics & Telecommunication | Assistant Professor Feb 2022 - Present.

Assistant Professor | Pillai HOC College of Engineering & Technology | Department of Electronics & Telecommunication | Lecturer Jan 2013 -Dec 2015 & Assiatant Professor Jan 2016- Jan 2022

Subjects:

Mobile & Wireless Communication

Internet of Things

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, RF & Microwave

Key Engagements:

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PROJECTS DELIVERED

PH.D Project: Non Invasive blood Glucose Measurement techniques using Antennas.

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M.E. Project Titled: Design & Implementation of Multiband Antennas for RF power harvesting

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LIFETIME MEMBERSHIPS

- The Indian Society For Technical Education [ISTE] | **Membership#: LM 98116**
- Indian Society of Remote Sensing [ISRS] | **Membership#: L-5272**
- Advances in Science, Technology and Engineering Systems Journal (ASTESJ) (ISSN: 2415-6698) | **Membership#: AJR05447**
- International Journal of Engineering Research & Technology (ISSN : 2278-0181) | **Membership#: IJERTREW2766**
- Institute for Engineering Research and Publications (IFERP) | **Membership#: PM47096812**

ACHIEVEMENTS

- Conducted 50+ workshop on PCB & antenna designing in Mumbai & Pune university
- Published a book on "Antenna & Wave propagation" with Cengage Publication
- Best Paper Award in national conference held at PHCET Rasayani
- Admission Incharge for PHCET Campus for 6 Years
- Best Students Award | Engineering

WORKSHOPS / EXPERT LECTURES / TRAININGS - ATTENDED

- Completed NNRMS – ISRO Sponsored Certificate Courses for Faculty / Scientists / Engineers / Officers (Satellite Image Analysis & Photogrammetry) from 10/05/2021 to 02/07/2021 at IIRS
- Attended Seminars by Keysight, National Instruments, Ansys Academic Conferences.
- QIP Sponsored STTP on "Practical Electromagnetics for Modern Antennas, RF & microwave designs Using ANSYS HFSS", at DBATU Lonere | Sep 2015
- QIP Sponsored STTP on "Current Trends in the Design and analysis of Microwave Antennas and Guided Systems" at IIT Kharagpur | June 2014
- STTP On "Advances in Microwave Engineering" at PHCET Rasayani | Feb 2012

passive devices, EEH is the best solution where the Rectenna can convert this electromagnetic energy for the battery less devices and/or its attached sensors.

Consultancy Project: Testing of Optical repeaters for Mahindra Defence Naval System

- MDNS had Sought for assistance for testing of optical Repeater and same was successfully done in our college premises. A technical report for the same was generated which was being accepted by the vendor & MDNS.

Consultancy:

- Trainer for PCB Design , IoT and Antenna Design at Technoriya eTechnology private limited CBD Belapur | Jan 2016 - Present
- PCB Design Engineer for Infinity Systems & technologies Mulund | Jan 2018 - Dec 2020

PCB Incubation Center : CNC & PTH

- Trainer for Electronic Sector Skill council of India (ESSCI) Center of excellence at PHCET PCB incubaton Center.

Skillset:

- Schematic capture, layout, and component creation using Altium Designer.
- Capable of effectively working with electrical, mechanical, and manufacturing engineering disciplines in a team environment with good understanding of cross functional design processes.
- **Projects Undertaken** - Automatic Hand & Book Sanitizer.
- Expertise in Antenna Manufacturing.

PUBLICATIONS / PATENT

- Filed provisional patent on "Non-Invasive Blood Glucose measurement using Antennas " in August 2021
- Pratik J Mhatre, R N Duche, Pravin Patil, S D Nawale, "RF Power Harvesting System for RFID Applications in MultiBand Systems", IEEE Conference on 6th ICCCNT, USA, July 2015.
- Pratik Mhatre, Kishor Biradar, Amir Shaikh, Upendra Patil and Shashikant Renushe, "Wideband Circularly Polarized MSA with L-Strip Feed and Shorting Probes", IEEE International Conference on Communication and Electronics Systems (ICCES 2016), Oct 2016.
- Pratik J Mhatre, R N Duche, "Design of Multiband Antenna & RF Power Harvesting for RFID Applications" Tech Streams a National Conference at Pillai HOC College of Engineering and Technology, Rasayani, 21st March 2015. | Best Paper Award
- Pratik J Mhatre , Aamir Shaikh, "Non-invasive E health Care Monitoring System using IoT" International Journal of Information Sciences and Technologies (IJIST), April 2020
- Pratik J Mhatre, Manjusha Joshi, "Human Body Model with Blood flow properties for Non Invasive Blood Glucose measurement " Bio medical Signal processing & control , Elsevier Jan 2022.
- Filed patent on " Automatic Hand Sanitizer " in Dec 2021

ONLINE TRAININGS

- Training on **Arduino | Python** by Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India | 11th July 2019
- Coursera course on **Understanding research methods | eHealth: More than just an electronic record** | May 2020 & course on **High-Impact Business Writing** | Jun 2020
- Udemy course on How to Write and Publish a Research Paper: Complete Guide, May 2020
- Completed courses on Python for Machine Learning | AI & Big Data in IoT | Great Learning Nov 2021
- E-learning Program on **Machine Learning | Transformers** by Tata Steel, Apr 2020