

MANDEEP MALIK

Current Address : Military College of Telecommunication Engineering, Indore

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WORK EXPERIENCE

Instructor Class - A/ Project Coordinator

2019 - Present

Military College of Telecommunication Engineering, Indore

Indore, M.P

- Spearheaded 5Gi and 5G projects with IIT-Madras and Nokia Ltd for over 50 Cr to establish 5G Test Bed at MCTE.
- Trained on 5Gi network with DoT officials from IIT-Madras.
- Completed Nokia Bell Labs BL-100 5G associate certification.
- Faculty for M Tech and B Tech students for courses in Wireless Networks, MPLS and IoT.

Instructor Class - B

2016 - 2017

Military College of Telecommunication Engineering, Indore

Indore, M.P

- Teaching Faculty for Graduate Engineers Course.
- Courses taken on Analog Communication, Optical Fiber Networks and Satellite Communication.

Officer Commanding Communications

2014 - 2016

Static and Field Communication

New Delhi

- Responsible for voice communication to 800 local subscribers at Shankar Vihar, Delhi through EPABX (Alcatel) and (NEC).

Officer Commanding Operations

2010- 2013

Rashtriya Rifles

Rajuri, JK

- Deputation with Rashtriya Rifles Batallion in Counter Insurgency role, planned multiple Cordon and Search Operations.

Communications Officer

2007 - 2010

Static Communication

Jammu, JK

- Responsible for voice communication to 1000 local subscribers at Jammu through EPABX (Alcatel).
- Trunk communication to all Army static/ Field installations using E1/ PRI on Nortel Passport.

Network Analyst

2005 - 2006

HCL Technologies

Noida, UP

- Router programming on different protocols like ISIS, OSPF, BGP and IGP.

EDUCATION

Indian Institute of Information Technology (IIIT-N)

2021 - 2024

PhD in Wireless Communication

Nagpur, MH

- Thesis : Optimization of LoRa Communication Parameters For PER Reduction .
- Course Work : Machine Learning and Digital Signal Processing.
- CGPA : 7.9 (Course Work)

Indian Institute of Technology (IIT-R)

2017 - 2019

MTech in Communication Systems

Roorkee, UK

- Dissertation Stage I : Sensitive and Nonlinear Far Field RF Energy Harvesting.

- Dissertation Stage II : Nonlinear and Efficient RF Energy Harvesting for Backscatter Sensor Network with Extended Communication Range.
- Course Work : Coding Theory, Digital Communication, Cryptography, Information Theory and Filter Design.
- CGPA : 7.43

Military College of Telecommunication Engineering (MCTE)

2013 - 2014

IT and Communication Course

Indore, M.P

- One year course in handling Computer/Data Networks, Optical Networks, Cisco Router, L2/L3, MPLS, STM1, STM3, Cryptography, PKI and Project Management.
- Grade : 'AI'

Military College of Telecommunication Engineering (MCTE)

2008

Young Officers Course (Signals)

Indore, M.P

- Six months course for young Officers in basic equipment handling, Radio Relay, UHF Radio, PCM Mux, PDH, SDH, SONET, TDM EPABX, Computer network.
- Grade : 'B'

Indian Military Academy (IMA)

2006 - 2007

Post Graduate Diploma in Military Science and Warfare

Dehradun, UK

- One year course for Gentlemen Cadets in Military Tactics, Weapon Handling, Combat Operations and Military History.
- Grade : 'A'

Rustamji Institute of Technology, B.S.F. Academy

2001 - 2005

B.E in Electronics and Communication

Gwalior, MP

- Percentage : 75.9 (Hons)

PUBLICATIONS

Stand Alone or Non Stand Alone 5G Tactical Edge Network Architecture for Military and Use Case Scenarios

2023, Bangalore

IETE International Conference on AI and ML Driving 5G Advanced and 6G, e-proceedings Volume IV

Author: Mandeep Malik

Network Slicing In 5G: Possible Military Exclusive Slice

2023, Nagpur

International Conference on the Paradigm Shifts in Communication, Embedded Systems, Machine Learning and Signal Processing (PCEMS), pp. 48-52

Author: Mandeep Malik; Ashwin Kothari; Rashmi A. Pandhare

Simplified SEP Approximation Of HQAM In Combined Time Shared Nakagami-Lognormal And Rician Fading Channel

2022, London

4th International Conference on "Intelligent Engineering and Management (IEM), pp. 123-127"

Author: Shivam Kumar Garg; Mandeep Malik

Towards 6G: Network Evolution beyond 5G & Indian Scenario

2022, Noida

2nd International Conference on Innovative Practices in Technology and Management (ICIPTM)

Author: Mandeep Malik; Shivam Kumar Garg

SKILLS

The Arduino Platform and C Programming

Online

University of California

Certification Id : JUEK8HXBG6WT

Industrial IoT on Google Cloud Platform

Online

Google Cloud

Certification Id : 9NJZXYSRMFFUB

TECHNICAL STRENGTHS

Optical Networks

OFC, MER/MAR, OTDR, ROW Calculations

Computer Networks

IIS, L2/L3 Switches, MPLS routers

Telecom Networks

Alcatel/ Siemens EPABX, PCM MUX, E1, PRI, Microwave radios

Latest Tech

ML, Google IoT Cloud, LPWAN, Energy Harvesting, Scatter Networks

COMPUTER SKILLS

Computer Language

C/C++, MATLAB, PHP, Octave

Databases

MySQL

Tools

LaTeX, Simulink

PERSONAL DETAILS

Language Known

English and Hindi

Hobbies

Reading, Swimming and Tennis

Passport

Valid Indian Passport issued 2015

All details mentioned above are correct to the best of my knowledge.