


Anindita Mitra

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M.Tech Communication Engineering and Networks

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WORK EXPERIENCE

Organizations	Durations	Designations
IIT Kharagpur	Nov 2019 – Jun 2020	Research Engineer

Project: Research in Advanced Wireless Mobile Communications for Orthogonal Time Frequency Space Modulation (OTFS) (AWF)

Roles and Responsibilities

- Perform various mathematical derivation, design filters using MATLAB, develop logics using Arduino.
- Write project reports using LaTeX.
- Prepare presentations and host team meetings for the project.

TECHNICAL SKILLS

- Wireless Communication, Computer Networks, Digital Communication, Cellular Communication, Signal & Systems, MIMO, OFDM, Digital Signal Processing, Random Variables and Random Process
- Languages: C
- Tools Used: Basic MATLAB, LaTeX
- Familiar in working with Microsoft office

PROJECTS

Major Project

Title: Maximizing the Channel Capacity of UWOC System Using Channel Adaptation Technique

Description: We designed an underwater wireless communication system in this project. There are some performance parameter matrices which can characterize the quality of the communication link pretty well like average channel capacity (ACC), average spectral efficiency (ASE) and many more. Here we have derived these expressions of these parameters using EGG model, applying two different adaptation techniques ORA and CIFR.

Guide: Prof. Prabu Krishnan

Minor Project

Title: BER Performance Evaluation for The Downlink Noma System Over Different Fading Channels

Description: The main aim of this project is to analyze the performance of BER, after applying NOMA concept. Here in this project, we have concentrated on Power domain NOMA only. We have used SC at the transmitter and SIC at the receiver. Here we have worked on mitigating the effects of the Interference (SIC) and we have calculated, compared and analyzed the BER performance of the system using NOMA over different fading channels such as AWGN, Rayleigh, Rician and Hoyt.

Guide: Prof. Prabu Krishnan

INTERNSHIP / TRAINING

Internship On Networking & Security Technology:

Duration: Feb 2021– Mar 2021

Organization: Bharat Sanchar Nigam Limited (BSNL)

Descriptions:

We were introduced to computer networks. later we learned about OSI model and TCP/IP model. Some other concepts were like Switching, Routing, Networking Protocols, Error detection and correction, IPv4, IPv6, TCP, UDP, Routing Protocols, VLAN, WIFI, Network servers, & Cyber Security. We also became familiar with a tool called CISCO PACKET TRACER. Using it, we implemented some of the fundamental network models and learned how the establishment of the network and data flow takes place .

Vocational training in advance telecom with specialization in mobile technologies:**Duration:** Jul 2017**Organization:** Bharat Sanchar Nigam Limited (BSNL)**Descriptions:**

Learned about Switching, Signaling, different switching techniques, CDOT. We also had a dedicated session on Optical Fiber Cable (OFC), had a practical overview of fault detection and repairing techniques for OFC cables. Moreover, we have gone through the discussion on the evaluation of mobile communication, and some important terminologies like GSM, CDMA, SDH, Broadband. We had to attend quizzes on these topics on each day of the training. We also visited many telephone exchanges and their base stations and learned how a BTS actually works.

Vocational training in All India Radio:**Duration:** Jan 2017 – Feb 2017**Organization:** Prasar Bharati, All India Radio**Descriptions:**

In this training session we learned about Communication properties, modulation, A.I.R studio, AM & FM Transmission and antenna systems. we were also trained at the installations of studios, learned about high power transmitters, FM transmitters and acquainted with the different aspects of electronics and electrical equipment used in AM or FM.

Industrial summer training program on Basic Robotics with analog and digital circuits:**Duration:** 4 weeks (ended on 29.07.2016)**Organization:** Tech Learning Solutions Pvt Ltd Organized By MYWBUT**Descriptions:**

We learned about the basics of digital and analog circuits and then implemented them on breadboard. We modelled some basic robots.

EDUCATION DETAILS

Degree	University	Year of Passing
M.Tech (Comm. Engineering & Networks)	National Institute of Technology Karnataka	2023
B.Tech (Electronics & Comm. Engineering)	Maulana Abul Kalam Azad University of Technology (Known as W.B.U.T)	2018
Higher Secondary	West Bengal Council of Higher Secondary Education (WBCHSE)	2014
Madhyamik (Secondary)	West Bengal Board of Secondary Education (WBBSE)	2012

EXTRACURRICULAR ACTIVITIES

- Currently Working as a Placement Coordinator (PC) at NITK.
- Worked as an Internship Coordinator (IC) at NITK.
- Completed Spoken English Module 1 course at the Intermediate level from British Council Kolkata
- Distinction in Indian Classical vocal Music in 3rd year under Bangiya Sangeet Parishad affiliated to Rabindra Bharati University Calcutta

Surathkal, India