AREAS OF INTEREST

○ Communication Systems	○ Digital Signal Processing	○ Error Correcting Codes
○ Information Theory	○ Wireless Communication	○ Software Defined Radio

TECHNICAL SKILLS

- **Softwares Skills:** GNU Radio

- **Programming Skills:** C, C++, Python

- **Hardware Platforms:** USRP, RTL SDR

WORK EXPERIENCE

- **Graduate Engineering Trainee (C & I), Adani Power Limited** (July 2010-January 2011)

- **Senior Engineer (C & I), Adani Power Limited** (January 2011-July 2011)

PROJECTS AND SEMINARS

- **M.Tech. Project: Application of LDPC codes to Multiuser Communications** (July 2013-Present)
  Guide - Prof. Sibiraj B Pillai, IIT Bombay.

  LDPC codes are a class of linear error correcting codes characterized by a sparse parity check matrices. We study the current LDPC encoding and decoding algorithms and extend them to multiuser scenario. GNU Radio blocks for encoder and decoder are developed.

- **Google Summer of Code, 2013: LDPC codes and more FEC in GNU Radio** (June 2013-Present)
  Mentor - Dr.-Ing. Jens Elsner, CEL, KIT.

  This project aims to develop generic encoders and decoders for LDPC Codes and other FEC schemes currently not avaialable in GNU Radio.

- **M.Tech. Seminar: Resource allocation in Wireless Networks** (Nov. 2011)
  Guide - Prof. Sibiraj B Pillai, IIT Bombay.

  We studied various power allocation schemes in a wireless network in an Information Theoretic setup

- **Industrial Training: BSNL Kerala Circle** (May 2008 - June 2008)

  Various aspects of GSM Architecture were studied. Specifically, training on OMC Radio, OMC Switch, Radio Planning and BSS were obtained

COURSE WORK

○ Communication Systems	○ Error Correcting Codes
○ Information Theory	○ Digital Message Transmission
○ Digital Signal Processing	○ Wireless Communication
○ Statistical Signal Analysis	○ Applications of Linear Algebra
○ Markov chains and Queuing Systems	○ Optimization Techniques

ACHIEVEMENTS

- Our team secured a spot in the finals of **DARPA Spectrum Challenge**.

- **Best outgoing student** of the year 2004 in JNV Malampuzha.

HOBBIES

- Reading, coding, music and movies.