

SAMUDRALA SOUJANYA

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EXPERIENCE

Siemens Limited, Mumbai — Executive Engineer

JULY 2017 - MAY 2019

- Responsible for designing of Centralized Building Management Systems (a part of IOT).
- Designing the control logics of comfort systems, Network Design and Fire panel design.
- Very good hands-on experience on front-end graphic design of Siemens Desigo CC Graphic software which helps operator in Centralized building control.
- Trained to Program designed logics in Siemens X-works Programming software.
- Worked on Pharmaceutical Projects that required 21 CFR Complaint Validation.

PROJECTS

Intelligent Reflecting Surface (IRS) assisted Filter bank multicarrier (FBMC) Systems — M.Tech Thesis

- IRS is investigated in conjunction with FBMC waveform.
- A frame structure for IRS assisted FBMC waveform is designed for channel frequency response (CFR) estimation, followed by IRS reflecting coefficients optimization.
- Then maximizing the achievable rate by jointly optimizing the transmit power allocation and the IRS passive array reflection coefficients.
- Also studying the effect of IRS grouping on achievable rate.

Wireless Power Transfer using inductive coupling — B.Tech Thesis

- Study of Wireless Power Transfer using copper coil wound in different shapes.
- Study of effect of the coil shape on the induced voltage in the secondary coil which drives LED.

SKILLS

- **Strong:** Matlab Programming, Verilog
- **Intermediate:** C Programming, Simulink
- **Beginner:** Optiwave, Multisim

ACHIEVEMENTS

- **Branch Topper** of 13 students, CSP, M.Tech'22, Awarded **Gold Medal**.
- **Second Topper** of 310 students, M.Tech'22.
- **Certificate of Appreciation**, for being the M.Tech girls topper, Women's day celebration 2022
- **Top 1 percentile** of 7.4 lakh+ students, BIE, Awarded Inspire AP scholarship.

ONLINE COURSES

Fundamentals of MIMO Wireless Communication — IIT Kharagpur (SWAYAM)

24 Jan 2022 - 18 Mar 2022

Course covers important concepts of MIMO communication such as capacity computation, error probability analysis, transmitter and receiver design, multi-user communication, etc

SCORE – 92/100 (Assignments: 23.29/25|Exam:69/75)

- Top 2 percentile of 230 Certified candidates, Awarded **Elite + Gold Certificate**

EDUCATION

Indian Institute of Technology (ISM), Dhanbad — Master of Technology in Communication and Signal Processing

AUGUST 2020 - MAY 2022 **CGPA – 9.94**

National Institute of Technology, Nagpur (VNIT) — Bachelor of Technology in Electronics and Communication Engineering

AUGUST 2013 - MAY 2017 **CGPA – 9.06**

NRI JUNIOR COLLEGE, Hyderabad

Intermediate - JUNE 2011 - MAY 2013 - **98%**

SAI GRACE GRAMMAR HIGH SCHOOL, Siddipet

10th - JUNE 2010 - MAY 2011 - **91%**