ASISH NAYAK

Bachelor of Technology in
ELECTRONICS AND TELECOMMUNICATION ENGINEERING
Indira Gandhi Institute of Technology Sarang (Aug 2017 – June 2021)
Grade: 7.87 Overall CGPA

Master of Technology (Pursuing) in
RF AND MICROWAVE ENGINEERING
Indian Institute of Technology, Tirupati

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OBJECTIVES AND AREAS OF INTEREST

Obtaining knowledge regarding Antenna Design and RF Integrated Circuits and to explore and solve current problems of completed researches in microwave community.
Areas of interest: Microwave Simulation using HFSS Software, Electromagnetics, Antennas.

SKILL SET

- **Academics:** I have keen interest, relevant knowledge and skills in Microwave Engineering, Electromagnetics, Antenna Design and Network Theorems.
- **Software:** Ansys HFSS, LTSpice, Microwave CST, MATLAB
- **Programming Languages:** C, C++
- **Power Point Presentation, MS Word.**

ACADEMIC PROFILE

Degree	Institution	Year	CGPA/Percentage
Master of Technology in RF and Microwave Engineering	Indian Institute of Technology, Tirupati	2022-2024	8.65(CGPA) (1^{st} Semester)
Bachelor of Technology in Electronics and Telecommunication Engineering	Indira Gandhi Institute of Technology Sarang	2017-2021	**7.87**(CGPA)
10+2 (Higher Secondary)	Mother's Public School (CBSE)	2015-2017	75.80 %
10^{th} Standard (Ma)	Venkateswar English Medium School (CISCE)	2015	86.67 %

PROJECTS

- **BTech final year project:**
  As the BTech final year project, I have worked on the topic **Design of Miniature Wheelchair using BCI Technology.** We have used Neurosky Mindwave Mobile for collection of brainwaves. The common wave that we have collected is "blinking of eye" and "focus". We have designed software to use these two signals for movement of a Miniature Wheelchair. It is quite helpful for person having problem in movement.

- **Designing of a 5-section Chebyshev matching transformer for matching 50Ω line to 30Ω load with maximum permissible SWR of 1.25 over passband**

  In this project, a Chebyshev Multi-section matching transformer was designed using Ansys HFSS keeping design frequency of 5GHz.

- **Designing of a BAW Quadplexer Module using AWR Software** (Currently working)

- **Designing of a 10 GHz Low Noise Amplifier for Amateur Radio Operation** (Currently working)

- **Designing of a Microstrip Combline Bandpass Filter for center frequency of 5.4GHz and 2.4GHz** (Currently working)

ACHIEVEMENTS AND HOBBIES

- GATE (Graduate Aptitude Test for Engineering) qualified 2023 in Electronics and Communication Engineering – Score: 662, AIR: 547.
- GATE (Graduate Aptitude Test for Engineering) qualified 2022 in Electronics and Communication Engineering – Score: 558, AIR: 1295.
- GATE (Graduate Aptitude Test for Engineering) qualified 2022 in Instrumentation Engineering – Score: 619, AIR: 365.
- GATE (Graduate Aptitude Test for Engineering) qualified 2021 in Electronics and Communication Engineering – Score: 383, AIR: 6632.
- Self-taught flutist, love music making, mastering, gaming, reading scriptures.