

RITTIK SOOD

Senior NR5G RF Engineer and a PhD applicant

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in rittwik-sood

Google Scholar



EXPERIENCE

Senior Software Engineer, Modem RFSW NR5G

Qualcomm

📅 Sep 2018 – Ongoing

📍 Hyderabad, India

- 4+ years in NR5G team, Created critical features and assisted in their SW architecture, few being ENDC (LTE + NR5G), NRDC (FR1+FR2) and MPE (Maximum Polarisation Exposure in millimeter wave) in NR5G team
- Worked with multiple customers and product lines on new feature requests. Worked with teams of various geographies, (USA, CHN, Israel, EMEA) in day-to-day critical activities.
- Helped in bringing up 5G enabled Snapdragon Processors in time
- NRDC feature created by me from scratch, was presented as a highlight by Qualcomm CEO in MWC 2021 Barcelona

DAAD-WISE Research scholar

IBT, Karlsruhe Institute of Technology

📅 Summer 2017

📍 Karlsruhe, Germany

- Instantaneous phase estimation, filtering and advanced analysis of bio-signals including ECG signals, EEG signals to predict heart diseases well in time.
- Given only to 100 meritorious students across the country by the German government and EU to undertake research internship.

Summer Research Fellow - Indian Academy of Sciences

Indian Institute of Technology Delhi

📅 Summer 2016

📍 Delhi, India

- Made a project, Tourist Assistance system. Awarded best project in GIPEDI Program, IIT Delhi
- Reputed fellowship is given by the Indian Institute of Science (IISc) Bangalore to 200 students only across the country.

RESEARCH INTEREST

Wireless Communication Systems

Information Theory

THz applications

ACCOLADES AND RESPONSIBILITIES

Founder& First President, Innovative Research Incubation Club (IRIC)

Founder& First Chairman, IEEE Student Branch NIT-Hamirpur

Student Representative, Departmental Under-Graduate Committee

Convenor, Dramatics Club NITH

Core-Coordinator, SPEC ECE

Nimbus Technical fest, Innovation Secretary

PATENTS AND PUBLICATIONS

- 1 Indian patent titled 'REAL TIME SMART HONKING SYSTEM' published, 1 in process.
- Google Scholar

LIFE PHILOSOPHY

"Excellence is not an act, but a Habit"

MOST PROUD OF



President of INDIA Gold Medal

Awarded to the highest CGPA in the institute (9.72 on a scale of 10) Batch 2018



Director's Gold Medal for Best All Rounder

Awarded to one student in under-graduation having best all round performance in myriad of activities and clubs 2018



Qualstars and Orion Awards

Invention disclosure forms, Patent and excellent work ethics in Qualcomm



All India 2nd Rank

ADCOM ARM Design Contest 2015 conducted by ACCS, IISc Bangalore and ARM University held at IIIT Bangalore 2015



Convenor and Core-Coordinator

Led a team of 50+ members at *Dramatics club NITH* in cultural festival and *Innovation club (IRIC)* in technical festival at various events in college and across the country.

EDUCATION

B.Tech in Electronics & Communication Engineering

National Institute of Technology Hamirpur

📅 Aug 2014 – May 2018

9.72/10

Highest CGPA across batch, all branches and the institute (Among 800+ students).

SCHOLARSHIPS

DAAD-WISE Scholarship 2017

IAS-INSIA-IISc Summer Research Fellowship 2016

SJVN Merit Scholarship 2014-2018

CURRENT WORK ON

SUL bands, MIMO Systems, V2X systems, Embedded coding.