Rittwik Sood

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PROFILE

Dynamic and motivated professional, Electronics & Communication Engineer with excellent academic record and looking forward to a challenging and progressive environment to develop technically in field of Wireless Communication. Currently working as Senior Engineer in NR5G Modem-RFSW team, Qualcomm Inc.

PRESIDENT OF INDIA Gold Medal NIT Hamirpur (for highest CGPI in the institute) 2018.
DIRECTOR'S Gold Medal for Best All-Rounder NIT Hamirpur Batch 2018.

EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR, INDIA   *2014-2018*

B.TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING   (9.72/10)

• Highest CGPA in branch, batch and in entire institute (Amongst 3500+ students)

DAV PUBLIC SCHOOL HAMIRPUR (H.P.), INDIA   *2007-2014*

AISSCE   (10/10)
• Head Boy (Hansraj House). Winner (Himachal Pradesh state), Indian Science Congress, Science Quiz (2011). Represented school in various science quizzes, debates. Convenor Debsoc Society. Represented school at various plays. Nature and Eco Club President.

EXPERIENCE

QUALCOMM INC.   *2018-Now / Hyderabad, India*

SENIOR SOFTWARE ENGINEER, MODEM RFSW NR5G
Worked in UMTS/WCDMA RFSW in initial days. Created critical and important features from scratch 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 various customers on solving issues and coding new feature requests across the globe on various verticals. Worked on multiple product and customer lines simultaneously. Worked with teams of various geographies (USA, CHN, Israel, EMEA) in day-to-day critical activities and Feature Bring ups. Helped in bringing up 5G enabled Snapdragon Processors in time.

IBT, KARLSRUHE INSTITUTE OF TECHNOLOGY, GERMANY   *2017-Summer / Karlsruhe, Germany*

DAAD-WISE RESEARCH SCHOLAR 2017

• Given only to 100 meritorious students across the country by the German government and EU to undertake research internship. Mentored under Prof. Dr. rer nat. Olaf Dossel (Director, Institute of Biomedical Engineering (IBT), KIT Germany). Instantaneous phase estimation, filtering and advanced analysis of bio-signals including ECG signals, EEG signals to predict heart diseases well in time. DSP and Biomedical Signal Processing was utilised.

INDIAN INSTITUTE OF TECHNOLOGY DELHI   *2016- Summer / Delhi, India*

INDIAN ACADEMY OF SCIENCES - SUMMER RESEARCH FELLOW (SRF) 2016

• Reputed fellowship is given by the Indian Institute of Science (IISc) Bangalore to 200 students only across the country. Tourist Assistance System under Prof. Subrat Kar (EE- Dept. IIT Delhi). Given the best project award in the internship. Published an IEEE Conference paper on same.

RESPONSIBILITIES HELD AND ACCOLADES

FOUNDER AND FIRST PRESIDENT, INNOVATIVE RESEARCH INCUBATION CLUB (IRIC)   *2015-2018*
Official Incubation center NITH. Sponsored by GOI (Govt. of Ind.) and DST (Deptt. of Science & Tech). 3 of the projects incubated under this reached patent stage in the very first year.

FOUNDER AND FIRST CHAIRMAN, IEEE STUDENT BRANCH NIT-HAMIRPUR   *2017-2018*
Held one National Conference in college along with hackathons and guest lectures.

Student Representative, Departmental Under-Graduate Committee, ECE Deptt NITH   *2016-2018*
Represented my batch of ECE 2014. Resolved student problems and raised critical issues for the welfare of students.
1 student is selected per year in the commitee.

Core-Coordinator, SPEC ECE NITH   *2014-2017*
Society of Promotion of Electronics Culture (SPEC), Departmental Technical Society NIT-H. Conducted workshops,
competitions, hackathons and technical festival (SPECathon) for 3 years in the club.

Convenor, Dramatics Club NITH   *2014-2018*
Led College Dramatics Club at various platform across the country in myriad of performances, naming a few NSIT
Delhi, DTU Delhi, IIT Ropar, IIT Mandi, JNGEC Sundernagar. Received accolades and certificates from Deputy Commissioner Hamirpur for awareness-raising campaigns via dramas and nukkads across the district.
Acted and Directed various plays, nukkads and musicals

PROJECTS

- **ALL INDIA 2nd Rank, ARM Design Contest 2015**
  2ND ALL OVER INDIA at ADCOM ARM DESIGN CONTEST 2015 conducted by ACCS (Advanced Computing &
  Communication Society), IISc Bangalore and ARM University held at IIIT BANGALORE for project titled SMART
  HONKING SYSTEM, RF based design.

- **Major Project**: Best Major Project Award. IDENTIFICATION OF BRAIN TUMOUR BY SEGMENTATION AND COMPRESSION OF(TUMOUR) BRAIN M.R.I IMAGES by various algorithms.

- **Minor project**: 2nd best Minor Project Award. IoT Enabled emergency prioritised Smart Wearable under Dr. Ashok
  Kumar, HOD ECED NITH

PROFICIENCIES

Programming Languages	C	C++	Python	Matlab	Processing	Verilog
Software Development	Programming Paradigms	GIT
Tools	Qualcomm Tools (QXDM, QSPR, QRCT etc.)	ORCAD Tools (PSpice, Tspice)
		Tanner Tools	Proteus ISIS	gEDA PCB Design	Verilog HW Design	Cadence Tools
Publishing tools	Latex	Overleaf	Kile	TeXMaker
Languages	*Fluent:* Hindi , English *Beginner:* German, Sanskrit