VINAY KUMAR BOINI

(+91) 9494262694 ⋄ vinaykumarboini@gmail.com
www.linkedin.com/in/vinaytejaboini/

CAREER OBJECTIVE

To obtain a position in industry related to **Advanced Wireless Communications** that will enable me to use my technical knowledge and organizational skills to make a positive contribution to the organization and also to place myself in a consistent learning environment.

PROFILE SUMMARY

- Working with **Qualcomm India Private Limited** as **Modem System Test Engineer** with deep knowledge in **LTE** call flows and Lower layers. Completing **3 years** of experience by july2018
- Mainly worked on Feature requests (FRs) like **SPD, Fallback to G , Randomization and DRX reduction** which are solutions to page collision issues in Multi-SIM.
- Awarded with **3 Qualstars** for extraordinary performance in Qualcomm projects
- Honored with **Orion INSTA Award** for the efforts and contributions in debugging critical blocking issues
- **Testing Skills** includes creating a Test plan & reviewing with relevant people, Execution of Test cases and Automating the Test cases for particular feature
- Completed **MTech** Communication Engineering from **Indian Institute of Technology Guwahati** in 2015
- Published a Paper on MTech project work in **IEEE Transactions on Antennas and Propagation** (Volume: 64, Issue: 6, June 2016)
- Accomplished with excellent educational background like scored CGPA of 8.0 in M.Tech, Qualified GATE 2013 and 2015 with 99.56 and 98.67 percentile, Qualified in Joint CSIR-UGC Test For J.R.F and NET in Engineering Science, 73.03 percentage in B.Tech (Electronics & Communications).

WORK EXPERIENCE

Qualcomm India Private Limited *July 2015 - Present*
Modem System Test Engineer

* Industrial career started with **Uplink Carrier Aggregation** in LTE Multi-SIM
* **Micro sleep Feature** which is power optimization feature, UE sleeps for few symbols in subframe.
* **Page collision issue in MSIM:** Issue started with L+W page collision in some locations. below are solutions given to customers based on their requirement.
  - Fallback version1: L+W to L+G by deactivating W on nDDS sub.
  - DRX reduction: Reducing DRX of DDS sub to half so Percentage of collision will reduce.
  - Fallback reduced scope: L+W to L+G fallback by overwriting the neighbor cell re-selection priorities in sib.
  - Fallback full scope: Extending reduced scope algorithm to all tech combinations including L+L.

  - Randomization: It will avoid persistent collision but not collision. it will randomly generate a number and based on this no. UE will decide which tech to win.
  - SPD : simultaneous page decode, which will allow UE to decode both subscription pages simultaneously in Dual Radio mode.

* Team member of X+L which is LTE enabled on both subscriptions simultaneously
* Worked on RRC connection release methods: Releasing the LTE connection on nDDS sub
* Worked on DDS switch during voice call on ndds sub: support to allow Internet data during nDDS sub call.
* Worked on INCMON: Increased Carrier Monitoring for LTE
* Worked on MTF: Modem Test Framework using Wirelessone network.
* Worked on DTF: Deterministic Test Framework

EDUCATION

Indian Institute of Technology Guwahati *July 2015*
MTech. in Communication & Engineering
Overall CGPA: 8

Kshatriya College of Engineering, Armoor *July 2011*
BTech. in Electronics & Communication Engineering
Overall Percentage : 73.03

ACADEMIC PROJECTS

Modeling of Photoconductive Antennas *July 2014 to July 2015*
Prof. RatnajitBattacharjee
Terahertz techniques have attracted a lot of attention recently because they not only provide ultra-fast data rate for wireless communication systems, but also offer some unique features for a wide range of applications in such as medical imaging, remote sensing and security scanning. The photoconductive antenna (PCA) is by far the most widely employed device to generate and detect the Terahertz wave.

Spatial Modulation: *Jan 2014 to March 2014*
Performance Evaluation in Nakagami Fading Channels
Prof. KshetrimayumRakhesh Singh
Fast growing mobile technology needs higher data rates. Due to limited RF spectrum, there exist 2 challenges i.e. make system more spectrum efficient and energy efficient. Spatial modulation developed to address these challenges.

CAN Based Distributed Control System *Dec 2010 to May 2011*
Mr. Chander
The CAN is a serial communication protocol, which efficiently supports distributed real-time control with high level of security, and wide variety of applications include in the fields of automotive, industrial and entertainment. Code developed in C language and framework for compiling programs and downloading them to the micro-controller done using AVR Studio software.

Implementation of 32-bit RISC Processor *April 2010 to June 2010*
Industry Oriented Mini Project
Mr. Sayyanna
Reduced Instruction set computer (RISC) utilizes highly optimized set of instructions to provide higher performance. RISC implemented in Modelsim (in Windows OS) and as well as in VCS tool (in Linux OS) using Hardware Description Language (HDL).

TECHNICAL PROFICIENCY

Programming	MATLAB, C, C++, Perl, LaTex
Operating Systems	Windows, Ubuntu

COURSE WORK

- Data Communication Networks
- Wireless Communications
- Analog and digital circuits, Semiconductor physics
- Electromagnetic theory and antennas

POSITIONS OF RESPONSIBILITY

PoC, Eagle power group *July 2015 to July 2018*
Qualcomm internal games(QHEL)
Organized QHEL event every year as part of QHEL committee since 2015

Head, Membership Development Committee *Jan 2014 to Jan 2015*
IEEE Student Branch IITGs
Organized 3 national level workshops as a part of IEEE student branch committee.

EXTRACURRICULAR ACTIVITIES

- Worked as Technical volunteer in National Level Workshop on GPU Programming and Applications Organized by IIT Guwahati.
- Participated in Comprehensive one day workshop on Radar Systems and state level workshop on VLSI Design.
- Worked as a volunteer in IEEE workshops on Graphics and Presentation, AdMAT2015 Organized by IEEE Student Branch IIT Guwahati.
- Presented a Technical report on A New Revolutionary System to Detect Human Beings Buried under the Earthquake Rubble.
- Participated in YES+, Happiness course as a part of Art of Living program.
- Participated in the Technical communication and writing workshop organized by student affairs section, IIT Guwahati.

SOFT SKILLS

- Self-Motivation.
- Hardworking and Self-confidence.
- Conceptual understanding.
- Strong leadership skills with an ability to keep the team motivated and perfect planning.

PERSONAL DETAILS

- **DOB:** 28-09-1989
- **Languages known:** English, Telugu and Hindi
- **Permanent Address:** S/o Kishtaiah boini, H.No. 3-20, Malthummeda, Nizamabad- 503108.