**Md Kamrul Hasan Pulok**   
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Highly skilled RF engineer with more than 6 years of experience on LTE, UMTS, GSM & CDMA technology. Worked on new site design and optimization, cell level & cluster level optimization, interference/RSSI analysis, hardware fault diagnosis, worst cell/top offender troubleshooting. Also have multi-band/carrier RF optimization experience of LTE, UMTS, CDMA and EVDO.

## Technical Skills

* **RF Engineering:**
* LTE, UMTS, GSM, CDMA, EVDO
* Ericsson, NSN, Huawei & Samsung RAN systems
* MapInfo, Mentum Planet, Windcatcher, Actix, TEMS Investigation, TEMS Discovery, SwissQual, Street & Trips, Google Earth, Spectrum analyzer.
* **Programming Languages:** MS Access & SQL Database, Python, MATLAB, C, Java, MS Word, Excel with VB programming & Macro design.

## Employment History

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| * **Samsung Contractor for Sprint**   ***RF Engineer III*** | **Denver, CO**  ***June 2015 - Present*** |

**Responsibilities**:

* Cluster wise optimization containing sites with LTE, CDMA and EVDO technology
* Optimization of LTE CFR, CDR, X2 & S1 HO along with load balancing in 800, 1900 and 2500 MHz Band
* Voice & LTE Top offender optimization, Event site optimization, Drive test log analysis
* Root Metrics test preparation

**Achievements**:

* Sprint became first in Denver Market consecutively two times in 2015H2 and 2016H1 as per Root Metrics test for the first time.
* Got promotion within 4 months from RFII to RFIII after joining.
* For 3 months I was responsible for optimization of West Iowa Market consisting around 300 sites. My contribution helped to become #1 in medium market list (33 markets) based on KPI performance.

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| * **CAPS, Florida State University**   ***Graduate Research Assistant*** | **Tallahassee, FL**  ***Jan 2014–May 2015*** |

**Responsibilities**:

* Worked in a DOE sponsored research project named “A Lyapunov Function-Based Remedial Action Screening Tool Using Real-Time Data”. The project required huge programming and SQL server database development skills.
* Developed real-time voltage stability monitoring system using Synchrophasor technology for Transmission network.

**Achievements**:

* Published 3 IEEE Technical Conference Papers during the period.

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| * **Grameenphone Ltd. (Telenor Company)**   ***Lead Engineer, RF Design and Optimization***  **Responsibilities&Achievements:** | **Dhaka, Bangladesh**  ***Apr 2011–Dec2013*** |

* Actively contributed to cost effective RF network designing and initiating deployment as per network coverage and quality gaps considering marketing and commercial requirements.
* Recognized by the technology management for my successful contributions in customized and innovative RF coverage and qualitysolution design for critical road junctions, crowd gatherings, sports events, commercial events & repeater DAS design.
* Performed radio resource dimensioning in regular basis to maintain voice and data KPI as well as to ensure optimum resource utilization. Also worked for worst cell identification, solution design and work order issuance for corresponding teams like operationsteam and BSS configurations team.
* Worked as data service key responsible of Dhaka zone and lead the team to have optimum Data internet service.
* Contributed in many new RF feature trial evaluations and deployment activity. Intensive pre-post drive test log analysis and statistical performance KPI analysis were performed to evaluate the RF features.
* Successfully maintained aggressive SLA for customer complaints and ensured cost effective solution design and implementation to improve customer satisfaction maintaining sustainability of the business.
* Played an important role as RF engineer in BSS swap project where twelve thousand multivendor GSM BTS were swapped (Ericsson& Alcatel Lucent to Huawei). Performed drive test log analysis, cluster KPI analysis, vendor’s solution plan verification and KPI acceptance from vendor.
* Worst cell performance analysis, alarm generation and resolution by working with other engineering teams. Also worked with other engineering teams to optimize the customer end to end experience.

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| * **Robi Axiata Ltd. (Axiata Company)**   ***Specialist, RF Optimization*** | **Chittagong, Bangladesh**  ***Oct 2008 –Apr 2011*** |

**Responsibilities&Achievements**:

* Regularly monitored, maintained and analyzed the radio KPIs of network. Performed parameter tuning and initiated resource optimization to improve radio network performance.
* Audited and optimized new sites to ensure smooth integration & functionality. Regularly monitored and identified the worst performing cells and took improvement initiatives.
* Investigated radio network (both CS & PS) related customer complaints and provided solutions to achieve customer satisfaction. Analyzed Drive Test log, identified problem locations, prepared necessary solution and ensured the implementation of the plan.
* Carried out performance verification and follow-up of new nodes (MSC/BSC) to ensure smooth integration & functionality.
* Performed Cell-level & BSC-level performance verification after major network modifications (e.g. re-parenting of sites from one BSC to another BSC, re-homing of a BSC from one MSC to another MSC, LAC splitting in a BSC, S/W upgrade in BSC or MSC, special feature activation in BSC etc.)
* Played an important role as RF optimizer in BSS swap project where two thousand BTS were swapped (Ericsson &Huawei to NSN). Performed drive testing, log analysis and cluster KPI acceptance from vendor.

## Education

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| * **Florida State University**   *Master of Science, Electrical Engineering* | **Tallahassee, FL**  *Jan 2014 –Aug 2015* |
| * **Chittagong University of Engineering and Technology** *Bachelor of Science, Electrical and Electronic Engineering* | **Bangladesh**  *Feb 2004 –July 2008* |

## Awards & Honors

* Bangladesh Sweden Trust Fund Scholarship (BSTF).
* Appreciation letter from Grameenphone Ltd.
* CUET Technical Scholarship for excellence in Higher Secondary Certificate examination.
* Bangladesh Government Junior High School Scholarship.

## VISA Status

* Expecting Green card within June 2016 which was applied through spouse. Current VISA status is F1.
* Authorized to work for any employer in US by current EAD card which is obtained through Green Card application (I-485).