

RF OPTIMIZATION and SPM ENGINEER

Mehmet Adil EKİN

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Personal Information

Birth Place	Ceylanpınar / Şanlıurfa
Date of Birth	09.07.1984
Marital Status	Single
Driving License	B class (since 2008)
Mobilization	Yes



Qualification Summary

- Working for improvement of service performance as looking from customer's point of view.
- Optimizing RF side of Network with a method based on bad events/failures (Dropped Call, Setup Failure, etc.) using Traffic, Statistics and Optimization tools.
- RF Optimization with Tems, Actix and MapInfo Tools: Analyzing the problems and reporting the results/KPIs via drive tests.
- Visiting sites to research any faulty situations to be able to effect RF performance.
- Indoor RF Planning and simulating EIRP plan with iBwave RF-vu tool and leading Indoor RF Planning teams.
- Carrying out drive/walk tests, leading test teams and configuring test equipment.
- Experience on MapBasic Programming Language: Coding scripts run on MapInfo.
- Experience on coordinating installation of new base stations (Motorola Horizon 2G BTS and Huawei 3G NodeB).
- Carrying out Technical Site Surveying (TSS).
- Technical Knowledge of GSM(900/1800) / EDGE / UMTS(2100) / HSPA.

Professional Experience

Avea (outsource) – (2014 March to now)

RF Optimization and SPM Engineer in Customer SLA Management Team:

- Service Performance Management (SPM) Department works like a bridge between Marketing/Business groups and Network technical groups; Customer SLA Management Team is responsible to understand requests from Technology Group and make them implement at Network side.
- SPM Engineer works for improving service performance and thinks like an end customer, this is main difference between SPM and other Network technical teams.
- SPM Department takes part in development of SQM (Service Quality Management) and CEM (Customer Experience Management) tools.
- I'm responsible for CEM Phase-1 project in side of SPM Department and follow the project considering Marketing/Business groups' expectations.

Avea (outsource) – (2013 July to 2014 March)

RF Optimization Engineer in a Special Customer Case Team:

- Working for optimizing network -especially RF side- based on some bad events/cases (Dropped Call, Setup Failure, etc.) experienced by a special subscriber group.
- Using NSN Traffica/SAI, Huawei Nastar and Argela NPM tools to determine whether subscriber had a bad experience (considering Release Causes) in CS domain or not. And classifying cases as Core or RAN related.
- Trying to locate where the problem was experienced using Traffic tools and RF Optimization tools like Ultima Mentor, Focus, NCPR, P.I.ANO for RAN related cases.

- Finding out the problematic node using statistics and operation tools like Ericsson 2G/3G OSS (Moshell), Optima, NetAct, P.I.Web, Google Earth, Maximo, Atlas.
- Forwarding cases that includes recommendations to related groups for last (actual) actions using internal case tool F1.
General Recommendations: Changing tilts, directions, heights, etc. Removing/adding sectors/carriers/TRXs. Checking VSWR and Hardware. Changing frequencies, Scrambling Codes, Neighbors, Power/Code/CE parameters, Handover / Cell Reselection parameters, etc.

TNI Systems – (2013 April to 2013 July)

- General RF Planning and Optimization Works

Ericsson (outsourced) – (2012 September to 2013 April)

Site Visit Responsible in Ericsson RF Optimization Team in Avea Project:

- Arranging list of sites that visits requested by Optimization Responsible and determining final list checking KPIs on Optima Tool.
- Organizing site visits with Avea RF Planning Engineers and Site Work Technicians.
- Visiting sites to research any faulty situations about feeders and/or antennas' directions, tilts, heights, mountings etc. which can effect RF signal strength/quality.
- Fixing (when possible) some problems on sites with Site Work Technicians.
- Recommending revisions after site visits and start/follow Work Orders in Maximo and Atlas Tools.
- **Generally Requested HW Revisions:** Changing tilts, directions, heights, locations, antennas, antennas' types and isolating antennas with side and/or back reflectors and removing/adding sectors/TRXs and checking VSWR.
- **Generally Requested Parametric Revisions:** Changing frequencies and adding/removing neighbors and changing output powers.

In addition;

- Checking all network SDCCH performance as a daily routine to detect cells suddenly get worse and sharing the list with the Optimization Team.

TNI Systems – (2009 May to 2012 September)

Projects:

- **Vodafone / Huawei Swap Project** (Adana-Diyarbakir Regions) – RF Optimization Engineer and Drive Test Team Leader
- **Vodafone Optimization Project** (Adana-Diyarbakir Regions) – RF Optimization Engineer and Drive Test Team Leader
- **Vodafone / NSN 2G/3G New Indoor Site Installation Project** (Adana-Diyarbakir-Istanbul/Asia-Istanbul/Europe Regions) – Project Coordinator
- **Turkcell / Palmel/Orkom Maintenance Project** (Istanbul West Region) – Drive Test Team Leader
- **Vodafone / Huawei 3G New Indoor Site Project** (Istanbul Asia-Istanbul Europe Regions) – Indoor RF Planning Engineer
- **Avea / ZTE 3G New Network Project** (Diyarbakir-Erzurum Regions) – Drive Test Team Leader
- **Avea / Ericsson 2G/3G New Site Project** (Izmir-Bursa Regions) – Indoor RF Planning Engineer
- **Avea / Ericsson 3G New Network Project** (Izmir-Bursa Regions) – Drive Test Engineer
- **Avea Outdoor GSM(900/1800) Coverage Project** (Izmir-Bursa-Istanbul Asia-Istanbul Europe Regions) – Drive Test Engineer
- **Asiacell / Powerwave MCPA Installation Project** (Arbil/Iraq) – Support Engineer (for a short while)

General Works During Projects:

- Analyzing the problems at the data collected with drive/walk tests and reporting the results/recommendations to the customer as Cluster Benchmark Report, Network Launch Report or Optimization Report.
- Analyzing failures and statistical performance with Teme, Actix and MapInfo/MapBasic tools for completed tests.
- Leading test teams for indoor (walk test) and/or outdoor (new site, hotspot location, cluster benchmark etc.) tests.
- Configuring test equipment (UEs, scanners, computers etc.) and tools (Teme, Nemo etc.).
- Drive/walk testing for new/swap or sector added 2G/3G sites and reporting results as Site Verification/Functionality Test Report (SVT/SFT) or Single Site Verification Report (SSV).

- Leading Indoor RF Planning Team.
- Planning and simulating indoor EIRP plan with iBwave RF-vu tool.
- Coordinating installation teams for new 2G/3G site installation and attending new site acceptance.
- Carrying out Technical Site Surveying (TSS) for new sites.

Training

- **Huawei** (2 days, Istanbul/Turkey) – Using of Nastar Tool
- **Actix** (1 day, Istanbul/Turkey) – Actix Analyzer Queries
- **ZTE** (2 days, Istanbul/Turkey) – Structures and Principles of ZTE BTS/NodeB and RNC Products and Introduction to NetNumen M31 Software.
- **Powerwave Technologies** (2 days, Stockholm/Sweden) – In-Building System(IFS) RF Planning, Structures and Principles of Powerwave Repeaters.
- **NSN** (1 day, Ankara/Turkey) – Maximo on PDA and Web Interface.
- **Huawei** (2 days, Istanbul/Turkey) – LMT and LCT softwares to access Huawei NodeB and IP Radio.

Education

2011 – Present Master, Electronics and Communication Engineering, Kocaeli University, Kocaeli, Turkey
2002 – 2009 Bachelor, Electronics and Communication Engineering, Kocaeli University, Kocaeli, Turkey
1994 – 2001 Viranşehir Anatolia High School, Şanlıurfa, Turkey

Language

Turkish Native Language
English Good (reading&writing&speaking)

Technical Skills

NSN Traffica	Advanced
Innovile Focus	Advanced
Tems Investigation	Advanced
MapInfo	Advanced
Actix	Advanced
iBwave RF-vu	Advanced
NCPR	Advanced
P.I.Web	Advanced
Optima	Advanced
Maximo	Advanced
Atlas	Advanced
Argela NPM	Intermediate
P.I.ANO	Intermediate
Schema Ultima Mentor	Intermediate
MapBasic	Intermediate
Nemo	Intermediate
Huawei GENEX Probe & Assistant	Intermediate
Moshell (Ericsson 2G/3G OSS)	Intermediate
NSN NetAct	Beginner
Huawei Nastar	Beginner
Huawei SEQ Analyst (Smartcare)	Beginner
SAS Enterprise Guide	Beginner

References:

Ahmet Köklü (Network Optimization Expert) – (0090) 532 203 10 04 – ahmet.koklu@gmail.com
Hakan Işık (CEO at TNI Systems) – (0090) 554 822 51 32 – hakan.isik@tnisystems.com

Social and Technical Interests:

Photograph, music, internet, reading, travelling, theatre, cinema.
Telecommunication, GSM, UMTS, CEM, SPM, SQM.