



ARASH MAHMOUDIAN

ELECTRONIC AND OPTMIZATION ENGINEER.

PROFILE

As an ambitious and hard-working individual, I am often recognized for my commitment and ability by highly respected companies. I handle daily basis-multiple tasks competently, working well under pressure. Since I can speak three languages, Persian, Turkish and English, this ability confers me a strong communication skill. Finally, being an energetic individual and eager to learn new skills; beside having more than 10 years of experience in various workplaces, these lead me into a creative approach to problem solve. I would welcome the opportunity to discuss my suitability in more detail.

CONTACT

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HOBBIES

Book
Gym
Music
Travelling
Pets

EDUCATION

Overall GPA: 3.24
The university of Findlay
 Will study Applied security and analytic
University of Sabzevar
 Sep 2005 - June 2008
 Bachelor's degree in electronic engineering.
Technical and Vocational University of Urmia #1
 2002 - 2003
 Associated degree in General Electronic.

WORK EXPERIENCE

UFTV- The University of Findlay
 Sep 2019 until now.

- Producer assistant.
- Graphic, Switcher.

NAK: Electronic engineering analyst
 Jan 2019-Sep 2019

Test Engineer:

- WiMAX, 2G, 3G, and 4G RF field measurement: (RxQual, Rxlev, RSCP, EcNo, RSRP, RSRQ, SINR). Data collection through **TEMS** Investigation, **XCAL** and **Probe**.
- **E2E** Call Processing including Layer 3 and 2 Signaling analysis, Low throughput analysis. Moreover, prepare overall city level report.
- Post Process through **TEMS** Discovery and **Actix** to find Sector and Feeder swap, gap coverage, Bad quality and distinguish external interference.
- **New Product test** (Specification and performance evaluation).
- Troubleshooting issues.
- New **RNC** (Radio Network Controller) **ATP** (Acceptance Protocol Test). Provide test environment (RF, Hardware, Switches and required software).
- **Spectrum Analyze** to identify external interference.
- Experienced with **signal generator**.
- Having experience with **Ericsson** equipment (Surveillance and Troubleshooting).

GSM optimization.

- KPI analysis & Drive Test Analysis & TRX expansion.
- Multi-layer traffic balance
- TRX capacity, KPI improvement (CDR, CSSR, HOSR, ...)
- Neighbor relation.

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3G (WCDMA) and 4G(LTE) optimization.

- OSI layer analysis (PDCP, RLC, MAC and PHY layers).
- Air interface protocol (UL, DL, Scheduling, ...).
- Physical layer protocol analysis.
- Optimization (Cell, NodeB/eNodeB, city, and BSC level).
- Feature validation / activation and examining their functionalities (Provide a RF, SW, HW required condition for test).
- 3G(WCDMA) Carrier strategy (Load Balancing among several carriers: Balance packet data and expand RF coverage)
- Multi-Feature strategies to achieve an optimum usage (HSPA, CAC, LDR, DRD, 2ms HSUPA, CE overbooking, SRB over HSPA).
- Capacity management.
- Experienced with various **3GPP releases** (from Rel.7 to Rel.18).
- IRAT- Interoperability (LTE to 3G and 2G, and vice-versa)
- CSFB to 3G and 2G
- **MIMO** activation.
- Dual Band HSDPA.
- **Facility Management**
- Wireless System installation.
- Reporting to the General Manager.
- Project study, Project costing and implementations.
- Power consumption analysis.
- TI - Integration.
- Team working.

TopComm:

2009- Jan 2019

4G(LTE) optimization

- IRAT-Interoperability setting. Traffic balance between 4G and 3G.
- Coverage balance between 1800 and 2600. Traffic balance on bands.
- Improve spectrum efficiency. License distribution among different eNB.
- Carrier Aggregation.
- Traffic load balancing between 1800 and 2600.
- CSFB optimization.

3G optimization,

- Load balancing on multiple carriers (U900 & U2100).
- HSDPA (Max and Min code utilization, TCP pwr, DPCH pwr,) & HSUPA (Max UL load factor, 2ms TTI...) optimization & SIB7 to reduce RTWP.
- Retuning all CAC parameters.
- Feature study and preparing all requirements to active them including dependent feature switches and threshold tuning such dual carrier & SRB over HSPA & Call re-establishment & 2ms TTI and E2D optimization & DCCC and GBRs & overlap switches, Power margin.
- Radio ATP of new RNCs.
- Provide radio condition to test basic and optional feature (HHO-SHO-LDR-DRD-Cell PCH-R99-HSPA under various TTI selection).
- Preparing default parameter list for cell/NodeB/RNC level parameters.
- DT log files and KPIs analysis (Tems investigation and Discovery & Actix).
- Costumer complaint troubleshooting.

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GSM optimization:

- KPI analysis.
- TRX expansion.
- Multi-layer traffic balance.

Senior Drive Test Engineer

- CS (Circuit switch) and PS (Packet switch) field measurement, collect signal strength and quality (Rxleve & Rxqual dbm) level, speech quality SQI and signaling analysis.
- Provide Command Sequence based on scenarios.
- Expert at any kind of Drive Test.
- Circuit Switch Drive Test (Short Call & Long Call & Idle).
- Frequency Scan.
- PS (GPRS & EDGE) Drive Test, Ping, FTP DT, CQT DT.
- MOS DT by Probe Genex (Huawei tools).
- RVT (GSM) Drive Test, Huawei MTN project

DT Post process.

- Drive Test Analysis (Tems Investigation & Discovery, Actix), Deep signaling analysis.
- Preparing DT reports and root cause analysis of problematic (poor coverage and quality: Feeder & Sector swap, Coverage gap, Interference, Neighbors and Handover problems and ...etc.)

AS RVT Support engineer:

- New Site functionality validation: ensure CS, SMS, and PS services are being worked properly considering Signal strength and quality (Rxlev & Rxqual) level and SQI (speech quality Indicator) and retain the main KPIs (CSSR-HOSR-CDR).

Radio Planning:

- Site Survey:
- Link-Budget
- Line of Site check
- Capacity management
- Atoll
- Coverage simulation

Regular Tasks:

- TI-Integration.
- Wireless System installation
- Project study, Project costing and implementations.
- Power consumption analysis.

General Computer Skills:



TEMS Investigation

TEMS Discovery

ACTIX

MAPINFO

Atoll

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Courses:

DEVELOPMENT ACTIVITY	KNOWLEDGE AND/OR SKILLS TO BE DEVELOPED	DURATION
GSM fundamental	2G mobile fundamentals	20 hours
3G UMTS Overview	3GPP principles	15 hours
3G RAN Optimization Workshop	WCDMA optimization	24 hours
WCDMA RAN system Overview	WCDMA technology	16 hours
iManager M2000 Network Monitoring	3G network monitoring	16 hours
WCDMA Radio Network Principle.WCDMA RAN12 HSPA+ Principle	WCDMA technology	40 hours
Accela-Cell data planning	3G network cell neighboring-inconsistency check	4 hours
WCDMA Radio Network Optimization Training	WCDMA RAN15 Network features and algorithms. WCDMA Radio Network Optimization	56 hours
3G Optimization	WCDMA Radio Network Optimization	32 hours
3G-WCDMA Protocols & Procedures	3GPP signaling	24 hours
Irradiation Protection Training	Microwave and Radio Irradiation protection	16 hours
EFQM	Models of organization. Excellence and	4 hours
Regulatory principles and concepts in the ICT	Regulatory principles and concepts	8 Hours
PS mobility Workshop	3G PS mobility optimization	8 hours
Network+	Network,	24 hours