

MOHAMAD HAIDAR

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PROFILE

Highly qualified and tenacious professional armed with broad-based background and skills in the areas of qualitative analysis, performance evaluation, patent analysis, wireless network design and optimization, research and many more. Displays outstanding ability to plan, coordinate, and implement practices and procedures to bring significant improvements in efficiency, quality and processes towards the successful attainment of organization goals. Primarily striving to understand clients' needs and provide them exceptional results through a cognitively flexible and positive approach. Determined to implement earned skills and knowledge for the rapid growth of the prospective organization by working effectively and consistently.

EXPERTISE AND QUALIFICATIONS

- **Ph.D.** in Applied Science (Wireless), **M.S.** in Telecommunications, and **B.Eng.** in Electrical Engineering.
- Over **10 years** of experience in Telecommunications and wireless communications (RF Capacity planning, RF coverage prediction, RF propagation/optimization, Microwave Planning/Design, Research and Development).
- Experience with various RF Engineering Tools: NetSurveyor, AirMagnet WiFi Analyzer, inSSIDer, Pathloss, Atoll (MW), Wireless InSite, OPNET, Qualnet, PQM.
- Ability to thrive under pressure and handle multiple tasks simultaneously; Great presentation and teaching skills.
- Excellent technical and analytical skills, specifically in the area of telecommunications, wireless communications, network design, and network simulations.
- Conducting searches on patentability, validity, freedom-to-operate and infringement.
- Experienced in RF network design, capacity planning, frequency planning, antenna selection, link budget, Coverage testing, Interference analysis
- Developing company business awareness and learning customer needs to inform new developments.
- Engaging in special information projects. Assisting project teams by offering technical and business data.
- Expertise in handling issues while ensuring optimal utilization of resources.
- Expertise in designing world class systems and implement quality processes that will enable organization to consistently meet and enhance customer satisfaction.
- Flexible to change with excellent planning and execution skills and works well within the constraints of tight deadlines.
- Strong communication skills contributing to effective working relationships with co-workers and clients.
- Exceptional leadership, management, planning, organisation, problem structuring and solving, critical thinking and decision-making skills. Excellent interpersonal, conflict resolution and counselling skills.

WORK EXPERIENCE

Global Patent Solutions | **Research Analyst**

July. 2016-Present

Key Responsibilities and Achievements:

- Communicate with clients to effectively review and gain an understanding of technical aspects of client inventions and technical search concepts
- Perform extensive database research into US patents, Published US Patent Applications, International (PCT/WO) Publications, Foreign Patents, Foreign Published Applications and Published Technical Literature.
- Performing PCT Search, examination, and written opinions.
- Reviewing, gathering, and analyzing technical literature.
- Preparing detailed reports regarding research findings in a timely and high-quality manner.

bluNEXUS | **RF Engineer Consultant**

Nov. 2015-July 2016

Key Responsibilities and Achievements:

- Planned, designed, and optimized Microwave Backhaul networks using PQM tool.
- Conducted webinars to demonstrate PQM capabilities.

SAR Insight & Consulting | **Senior Wireless Analyst**

Aug. 2015-April 2016

Key Responsibilities and Achievements:

- Research and analyze new technologies, such as IEEE 802.11ac/ad/ay/ah, Internet of Things, and 5G to present in a market analysis report.
- Conduct primary and secondary research. Collect and analyze quantitative research.

- Interpret data, formulate reports and make recommendations.
- Evaluate key data to ensure that data on the releases are accurate and the angle of the release is correct.
- Remain fully informed on market trends, other parties' researches and implement best practices.

Mobinets | Product Manager & SME (MW/WiFi)
Mar. 2012-Aug. 2015
Key Responsibilities and Achievements:

- Participated in the enhancement of an existing RF products and Microwave tool, NEP, (experienced in **Pathloss, iQlinkXG, PQM**) and started the development of new tool in the **WiFi** field.
- RF Planning, designing, and optimizing algorithms related to **Frequency Planning, interference analysis, LOS analysis, and Transmit Power optimization** in Microwave and WiFi networks.
- Modeled equipment and port configuration for **Alcatel-Lucent, Nokia-Seimens, and Huawei** equipment.
- Full understanding of **ITU norms (ITU G.821/826/828 P.530-9/12/13/14, P.837-3/5/6/7)** related to Rain intensity/Rain loss, E-to-E performance calculations, propagation data and prediction methods used in MW planning.
- Planned and optimized huge MW networks and provided **WiFi** consultations at customer premises, such as Vodafone UK, Wataniya Kuwait, Meditel/INWI Morocco, IndoSat Indonesia, OCI Kenya.

DeVry University | Adjunct Professor in the College of Engineering and Information Science
Oct. 2010-Jun. 2016
Key Responsibilities and Achievements:

- Taught and motivated students to excel in their academics. Monitor students' progress throughout the courses (NETW360- **Wireless Technologies** and Services with lab (2010-2011), NETW320- Converged Networks with Lab (2011), and NET561/562/563/589-Wireless Technologies (Graduate level, 2012/2013)).
- Designed course material and assisted other professors in teaching and motivating students.
- Assisted students achieve their academic goals and objectives. Demonstrated teaching excellence.
- Ensure compliance of university policy and procedure guidelines. Document all academic processes.

Ecole de Technologie Superieure and Ultra Electronics Inc., Montreal, Canada | Wireless Simulations Specialist
Oct. 2010-Feb. 2012
Key Responsibilities and Achievements:

- Simulated and optimized different RF wireless technologies (**WiFi, WiMax, Ad Hoc**) using Qualnet (Exata) for various military wireless infrastructures.
- Responsible for defining specifications, network components modeling, and documentation.
- Managed a small team of engineers and participated in implementing new PHY/MAC protocols that meet military environments. Developed documentation on new and existing systems

Ecole de Technologie Superieure and Intelligent Software Radio Inc., Montreal, Canada | Wireless Engineer
July 2009-Oct. 2010
Key Responsibilities and Achievements:

- Developed a dynamic bandwidth allocation algorithm in a satellite communication network.
- Implemented algorithm in NS-2 simulator. Tested and demonstrated the full intelligent bandwidth allocation functionalities on a testbed platform and simulator. Technically guided project team and defined strategic goals.
- Directed project management responsibilities for systems project.
- Prepared technical goals for the project team, reviewed the progress, and participated in the relevant parts of associates' performance reviews. Maintained a balanced portfolio of existing and new tasks.

HighTech Solutions, Montreal, Canada | Patent Analyst
Mar. 2008-Feb. 2009
Key Responsibilities and Achievements:

- Provided technical and intellectual property consulting in the fields of Wireless Networking.
- Evaluated and analyzed patent infringement, patent applications, and quality of claims.
- Developed business cases for portfolios of interest.

Ecole de Technologie Superieure, Montreal, Canada | Post-Doctoral Fellow
Feb. 2008-Jan. 2009
Key Responsibilities and Achievements:

- Analyzed and selected cognitive radio architectures for Cognitive Wireless Mesh Networks (**CWMNs-802.11**).
- Proposed QoS continuity protection models for CWMNs. Developed power management approach for CWMNs.
- Presented CWMN approaches, architecture, designs, and economical frame works to the project committee monthly.
- Developed business cases for portfolios of interest.

UALR-ALLTEL-MOTOROLA project, Little Rock, USA | RF Engineer
Aug. 2006-July 2007
Key Responsibilities and Achievements:

- Analyzed GSM and UMTS trials on university campus (indoor and outdoor). Simulated real-time indoor and outdoor environments and what-if scenarios using OPNET, MATLAB, and RF propagation tools.
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- Performed RF coverage predictions and RF capacity planning for indoor and outdoor environments. Provided feedback concerning network optimization procedures (optimal channel assignment, optimal site selection, better antenna configurations).
- Lead and trained more than 20 students during site-surveying tests everyday (different building materials, several floors, etc...). Participated in designing, documenting and testing of digital radio system components.
- Collected, organized, and analyzed data collected from site-survey tests using MS Excel sheets. Submitted proposals and reports to higher management for further study.

IBM supplemental (Coop), RTP Durham, USA | Development Engineer in Blade Server Development

Key Responsibilities and Achievements:

May 2006-Aug. 2006

- Developed new concepts for applying wireless technology to IBM eserver products.
- Conducted brief indoor RF site-surveying to asset the environment.
- Assisted Senior Technical Staff Member in developing several invention disclosures.

EDUCATION AND CERTIFICATION

Ph.D. in Applied Science | University of Arkansas at Little Rock, Little Rock, AR

Dec. 2007

Dissertation Title: "Dynamic Load-Balancing and Channel Assignment in IEEE 802.11 Indoor Wireless LANs" GPA: 4.0

M.S. in Telecommunication | Roosevelt University, Chicago Illinois

May 2002

Thesis Title: "Examining the Performance of Voice Packets over IP based Local Area Networks" GPA: 3.92

B.E. in Electrical Engineering | Lebanese American University, Beirut, Lebanon

July 2000

Project Title: "Location of Transmission Lines Faults using Digital Fault Recorders"

PROFESSIONAL AFFILIATIONS

IEEE Member, WiMax360 member, WiFi Groups, Telecommunications groups

ADDITIONAL INFORMATION

Over 5 journal articles, 17 conference papers, 1 book chapter and 1 Market research report in the field of Telecommunications and Wireless communications.

Publication list available upon request

GENERAL SKILLS AND COMPETENCIES

- Achieving goals, creative/strategic thinking and problem solving.
- Excellent ethics, hardworking, focus minded and sound organizational ability.
- Possesses a positive, mature and professional attitude. Excellent sense of initiative, tidiness, adaptability and networking. Ability to communicate effectively and build relationships with clients and colleagues.
- Excellent clients' service manner and interpersonal skill. Highly motivated to learn more.
- Excellent organization and time management skills demonstrated by ability to work both autonomously and as a positive team player. Detail and result oriented.
- Computer Skills: RF Engineering Software Tools- AirMagnet, NetSurveyor, inSSIDer, **Atoll (MW)**, **Pathloss**, OPNET, Wireless InSite (Indoor/Outdoor Propagation Tool, similar to EDX and planet EV) by Remcom, Qualnet (EXATA), PropLAB by Elektrobit, ATDI (RF Simulation tool), Mobinets **NEP (Microwave Module)**.
- Programming Languages- MATLAB, Turbo Pascal, HTML, working knowledge in Visual Basic, and LINGO by LINDO systems.
- Technical Knowledge of (but not limited to)- LTE, WiMAX, 3GPP, GPRS, GSM, Ad Hoc, Wireless Mesh Networks (802.11a/b/g/n/ac/ad/ay), Cognitive Radio Systems, Bluetooth SIG Technology, Sensor Networks