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CURRENT POSITION

Algerian Space Agency
Satellite Development Center
Senior Researcher Class -B-

EDUCATION

Abou Beker Belkaid University, Tlemcen, ALGERIA

PhD, Telecommunication, Communication and wireless network, February 2017

Dissertation: "Contribution To The design And Realization of Compact Microwave Components by Substrat Integrated Wave Guides Technology: Modeling by Finit Elements Method 2D."

Abou Beker Belkaid University, Tlemcen, ALGERIA

Master, Telecommunication, Telecommunication Systems and Telecommunication Networks July 2011

Thesis: "Adaptive Coding and Modulation in the WiMax Network".

Abou Beker Belkaid University, Tlemcen, ALGERIA

Engineer, Telecommunication, Telecommunication System, July 2010

Thesis: "Conception of inhomogeneous asymmetric directional coupler for high power in telecommunications applications".

Belsghir Laghder Secondary School, Tlemcen, ALGERIA

Bachelors, Electrical Engineering

RESEARCH AND TEACHING INTERESTS

Information and communication technology
Electromagnetic Theory for Microwaves and Optoelectronics
Satellite communication technology
Graphene
Antenna design
Terahertz technology
Quantum electronic and communication theory
Integrated circuits

PUBLICATIONS

"Dual Graphene Patch Antenna For Ka Band Satellite Applications."(with Mohammed Bekhti,)International Journal of Aviation, Aeronautics, and Aerospace, Volume-6, Issue-4,2019 Retrieved from <https://commons.erau.edu/ijaaa/vol6/iss4/6>

"Half-Mode Substrate Integrated Waveguide (HMSIW) For X-Band Applications." (with , Mehadjji Abri, Hadjira Abri Badaoui, Junwu Tao, Tan-Hoa Vuong) International Journal of Electrical, Electronics and Data Communication (IJEEDC) Volume-4, Issue-4, April 2016

"Compact miniaturized half-mode waveguide high pass-filter design based on SIW technology screens transmit-IEEE C-band signals." (with Mehadjji Abri, Jun Wu Tao, and Tan-Hoa Vuong) Microwave and Optical Technology Letters Volume 58, Issue 2, pages 414–418, February 2016

"Substrate Integrated Waveguide Design Using the Two Dimensional Finite Element Method," (with Mehadjji Abri, Jun Wu Tao, and Tan-Hoa Vuong) Progress In Electromagnetic Research M, Vol.35, 21-30, 2014.

PRESENTATIONS

“Crown planar antenna element for Ka band satellite applications,” The third International Conference on Artificial Intelligence in Renewable Energetic Systems IC-AIRES2019 for 26-28 November, 2019, Taghit Bechar Algeria.

“Self-Management of autonomus agents dedicated to cognitive radio networks ,”The third International Conference on Artificial Intelligence in Renewable Energetic Systems IC-AIRES2019 for 26-28 November, 2019, Taghit Bechar Algeria.

“A substrate variation effect study for new design of polygonal Antenna element for Ka-band applications,” International Conference on Advanced Electrical Engineering (ICAEE ‘19) for 19-21 November, 2019, Algiers, Algeria.

“Graphene Patch Antenna for Ka-band Applications,” The Third Algerian Geoscience and Remote Sensing Summer Scholl for 06-11 July 2019 at University Djelfa ,ALGERIA. IEEE GRSS ALGERIA chapter

“Overview of New Design of Graphene Patch Antenna for Internet of Nano Things Applications,” The 2nd Conference on Informatics and Applied Mathematics (IMA’2019) for 12-13 June 2019 at University Guelma, ALGERIA.

“Applications of Telecommunications in The space field,” Telecommunication Study day organized by institute of technology in university center of Ain Timouchent, ALGERIA, in 04 March 2019

“New Design Of Polygonal Antenna for Ka-band Applications,” The 6th International Conference on Multimedia Computing and Systems ICMCS’18 for 10-12 May 2018 , IEEE conference ,Rabat, MORROCO. DOI:10.1109/ICMCS.2018.8525897

“Study and Miniaturization of The SIW Technology,” International Conference on New Technology and Communication ICNTC’15 for 3-4 March 2015 University of HASSIBA BENBOULI, Chlef, ALGERIA.

“Analyse d’un guide d’onde à base de la technologie SIW fonctionnant en bande Ku,” Congrès National de la Physique et de ses Application CNPA’14 for 21-23 December 2014 at University of SAAD DAHLEB, Blida, ALGERIA.

“Analysis and Design of Substrate Integrated Waveguide for S-Band Applications,” Congrès Méditerranéen des Telecommunications CMT’14 for 22-24 May 2014 FST Mohammedia, Casablanca, MORROCO.

“Half mode waveguide design based on SIW technology,” International Congress on Telecommunication and Application’14 ICTA’14 for 23-24 April 2014 University of A.MIRA Bejaia, ALGERIA

“A Performance Propagation Studies of an SIW Waveguide Technology for Ka-Band Applications,” Third International Conference on Systems and Information Processing ICSIP’13 for 12-14 May 2013 at University 8 mai 1945 Guelma, ALGERIA

“A half mode SIW substrate integrated waveguide design for S-band application,” 8^{ème} Conférence sur le Génie Electrique CGE’08 for 16 to 17 April 2013 at l’école militaire polytechnique, Algiers,ALGERIA

“A numerically study of a new SIW waveguide using the CST microwave studio for C-band applications,” The Third International Conference on Image and Signal Processing and their Applications, for 2-4 December 2012 at University Abdelhamid Ibn Badis, Mostaganem, ALGERIA

“SIW waveguide design of Ku band Applications,”1ier Conférence National sur les Télécommunications CNT 2012 for 11 and 12 November 2012 at University 8 mai 1945 Guelma, ALGERIA

TEACHING AND ADVISING EXPERIENCE

Supervision of Master Thesis, university center of Ain Timouchent, ALGERIA,2018-2019

Vacation teacher, Tlemcen University, ALGERIA
Vacation teacher in information technology, 2012-2015

Private Teacher, Elnadjah-info Private School,
Teacher in networks technology, one month 2014

Co-supervision of Master Thesis, Tlemcen University, ALGERIA
Telecommunication department, 2012 – 2013/ 2013-2014/2014-2015/2015/2016.

TRAINING

Training: The Third Algerian Geoscience and Remote Sensing Summer Scholl for 06-11 July 2019 at University Djelfa , ALGERIA

Training: School on Embedded Systems of Tlemcen, ALGERIA, 8-12 October 2017

Engineer trainee, China Satellite Launch and Tracking Control General CLTC, Beijing, CHINA
Engineer trainee for satellite access center, Mars 2016- April 2016

Engineer trainee, Space Star Technology SSTC, Beijing, CHINA
Engineer trainee for Ground Application Systems, November 2015-Mars 2016

Internship Phd student, Department of Physics, El Manar-Tunis University, TUNISIA
High Frequency Electronics and Systems Laboratory, 2014, 10 days

Training:1st Autumn School on Industrial Engineering and Application,17-20 November 2014,Oran ALGERIA

Summer Internships, Algeritelecom, Tlemcen ,ALGERIA
The center of amplification of Tlemcen, 2009 one month

SOFTWARE SKILLS

CST (Computer Simulation Technology) :extensive

ADS(Advanced Design System):extensive

HFSS (High Frequency Electromagnetic Field Simulation): extensive

MatLab: extensive

CSM (Carrier Signal Monitoring): extensive

Pascal : working knowledge

Satmaster:(link budjet calculation’s software): extensive

Photoshop: working knowledge

Management software bibliography from Thomson Retures.: working knowledge

RELATED PROFESSIONAL EXPERIENCE

Satellite Communication Engineer, Algerian Space Agency, Oran, ALGERIA
Communication Engineer at Satellite Access Center department, August 2015- now.
Writes advanced technical documents and guides for internal and external customers

Negotiates, develops and monitors complex contracts including defining statement of work, interpreting, reviewing and following up the execution of the contract

Providing proactive and direct technical support to internal and external customers and partners Handling pre-sales and post-sales activities e.g. tender proposal, link budget, network planning, earth station qualification, customer report, emergency backup planning, interference issues etc.

Signal monitoring and alarm messages of telemetry data.

Troubleshooting interference on the satellite.

Manipulation in Vector Network Analysers and Spectrum Analysers

Engineer, Pentabell, Tlemcen, ALGERIA

Survey Maintenance Engineer, December 2014-July 2015

Carry out routine preventive maintenance to the network elements (BSS, Power, Access and Backbone Transmission) according to approved checklist and to insure the availability and stability of all 2G & 3G cells.

Receive alarms and trouble tickets from NMC and initiate corrective actions to clear all Radio, Transmission and power faults.

Use professional concepts in accordance with company objectives to solve complex problems in creative and effective ways.

LANGUAGES

Arabic: Mother tongue, **French:** fluent, **English:** fluent, **Spanish:** middle, **Chinese:** basic

REFERENCES

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Professor of wireless
communication technology
Tlemcen University
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telecommunication
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