Saleh Chebaane

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WORK EXPERIENCE

KACST-TIC in Radio Frequency and Photonics for the e-Society-king saud University-Saudi Arabia — novomber 2013 — Present

Researcher

RESEARCH EXPERIENCE
More than three years' research experience in Photonics and Quantum Physics. This includes Next Generation Fiber Optic Network and Modelling of quantum channel for quantum encryption.
Involved in projects like Photonic RADAR deception Jammer and Fiber intrusion detection in the Kacst-King Saud University Technology Innovation centre for radio frequency and photonics.

TEACHING EXPERIENCE
A teaching assistance experience in physics laboratories .
Participation in teaching various courses in physics and chemistry including Physic for Engineers I and II , Introductory Physics , Introductory Chemistry ,Chemistry for Engineers I and II , Calculus I , Calculus II and Calculus III.

University of monastir-Tunisia — January 2013 — September 2013

Researcher

Modelling of quantum channel for novel encryption method (quantum encryption)

QUALIFICATIONS

THEORY :
Optic , Fourier optics, Semiconductor, Physics of solid, Quantum physics
Physics of aggregates , Nuclear physics ,Radiation-interaction material,
Nano magnetism, numerical analysis, Atomic and Molecular Physics ,
Statistical physics, Approximation method, Theory of collisions.
Introdoctory Physics , Physics for Engineers I and II ,Introdoctory Chemistry,
Chemistry for Engineers I and II ,Calculs I and II .

SOFTWARE:
Matlab , Comsol Multiphysics software , LabVIEW, CST software

PRACTICAL:
Skiles in laboratory including Knowledge of how to use :
OTDR (Optical Time Domain Reflectometre)
Fiber splicing (Fujikura company)
OSA (Optical Spectrum Analyzer)

DCA (Digital Communication Analyzer)
AWG (Arbitrary Waveform Generator)
OMA (Optical Modulator Analyzer)
VSG (Vector Signal Generator)
Bit Pattern Generator for SHF system

All types of passive optical components (Optical Circulator ,
Add and Drop Multiplexer ,Optical isolater , Optical filter , optical coupler),
splicing fibers , optical amplifier (EDFA), electircal amplifier , Mach-Zender Modulator MZM,

EDUCATION

Master in quantum physics — September 2010 — September 2012

University of Monastir -Tunisia

Basic's Degree in Physics and Chemistry — September 2007 — june 2010

University of Monastir -Tunisia

Baccalaureate Diploma in Experimental Science — September 2003 — june 2007

Secondary school of Teboulba-Tunisia

PUBLICATION

1. Proposed Raised Cosine FMF for Dispersion Management in Next Generation Optical Networks - IEEE Photonics Journal -2016 (published)
2. Design Tradeoffs of Few-Mode Step Index Fiber for Next Generation Mode Division Multiplexing Optical Networks-ICTRC2015- Abu Dhabi-UAE(published)
3. Design of w-shape Graded Index Few-Mode Fibers With 6-modes and Low Differential Mode Delay -ICCSI 2016-Taif-KSA (accepted)

TRAINING

- Trainee in Aqua's laboratory - 2011-Tunisia
- Trainee in the company Sotutel (optical fiber's installation) - 2012-Tunisia
- English Cours -America-Mideast Educational and Training Services- 2012-Tunisia
- Trainee in the electronics and microelectronic's laboratory -2012-Tunisia
- CST software training - 2013-KSA
- Understanding RADAR Systems (University of Dayton)- 2015-KSA
- Web of Science and EndNote Training - 2015-Tunisia
- Clean Room Training - 2015- KSA

LANGUAGES KNOWLEDGE

- English professional
- Arabic professional
- French professional
- German basic

OTHER

- Member's association university and environment
- Football's refree
- Volleyball player

INTERESTS

- sports
- reading