Saleh Chebaane

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Nationality :Tunisian

Work experience

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

novomber 2013 — September 2016

Researcher /Lecture

TEACHING EXPERIENCE

- Provide training courses for under graded student :

Course Title: WikiOptics , Duration:5 weeks

This workshop provides an overview perspective of optical fiber devices and components such as optical splitters, optical couplers, optical attenuators, and fiber splicing in addition to optical network components such as WDM optical add drop multiplexer (OADM) . The workshop is enriched by numerous laboratory experiments that based on using optical laser/LED sources and optical receiver in order to test and investigate the mentioned fiber components

- 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.

- A teaching assistance experience in physics laboratories (Optical and communication laboratories , clean room laboratories)

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 Technology Innovation centre for radio frequency and photonics in King Saud University

University of monastir-Tunisia

January 2013 — September 2013

Researcher

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

SOTETEL(company)-Tunisia

June 2012 — December 2012

Engineer

- Fiber Optic Splicing (FO) and FO Testing Equipment Expertise
- Knowledge in Fiber Optic Communications Systems and Components.

Qualifications

PRACTICAL:

Skiles in laboratory including Knowledge of how to use :

LabView (with other devices)
Electric and Electronic Circuit
Mechanic of Material devices
Fluid Mechanic devices
Power machines
OTDR (Optical Time Reflectometer)
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

THEORY :

Optic ,electronic ,Fluid Mechanic ,Power ,electric and electronic circuit , Semiconductor, Physics of solid, Quantum mechanic ,mechanical 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 , LabVIEW, Comsol Multiphysics software , CST software

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 (2.31 impact factor) -2016 (published)
2. Design Tradeoffs of Few-Mode Step Index Fiber for Next Generation Mode Division Multiplexing Optical Networks -

ICTRC 2015- Abu Dhabi-UAE(published)

3. Design of w-shape Graded Index Few-Mode Fibers With 6-modes and Low Differential Mode Delay -Photonic network communication journal (submitted)

Training

Trainer: America-Mideast Educational and Training Services,Tunisia
Course Title: English cours
Duration: 3 months

Trainer: CST software
Course Title: CST software training
Duration: 3 days

Trainer: University of Dayton,USA
Course Title: Understanding RADAR systems
Duration: 5 days

Trainer: Thomsons,Tunisia
Course Title: Web of Science and EndNote Training
Duration: 1 day

Trainer: Clean Room, Germany
Course Title: How to use the Clean Room
Duration: 1 day

·**Trainer: EXFO, Canada**

Course Title: Optical Time Domain Reflectometer (OTDR)

Duration: 1 day

This course covers the usage of high end OTDR which can characterize a fiber link in excess of 200km. The training involved testing prototypes such as long range passive optical networks.

·**Trainer:Agilent Technologies, Germany**

Course Title: Optical Modulation Analyzer & Light wave Component Analyzer
Duration: 5 days

This training provides in depth understanding how the optical modulation analyzer and the light-wave component analyzer work. Optical modulation analyzer helps researchers in testing their software or hardware designs generating complex optical modulation schemes. The light-wave component analyzer, on the other hand, provides the capability of testing the electrical and optical properties of components.

·**Trainer: National Instruments, USA**
Course Title: Introduction to LabVIEW, cDAQ, FPGA and fiber optical sensing
Duration: 1 day

This course provides knowledge to effectively use main National Instruments (NI) software (Lab view), to build optical sensing applications and prototypes using NI Optical Bragg Grating interrogator. The training involved building applications using temperature, strain and accelerometer sensors.

·**Trainer: VPI Photonics, Germany**
Course Title: Modeling of Optical transmission Systems using VPITranmsission Maker Optical Systems
Duration: 3 days

This training provides knowledge to use the software VPITranmsission Maker for designing and testing optical devices and systems before moving on to implementation stage. This early testing facility enables researchers to optimize their designs even before purchasing expensive components thus avoiding any potential investment in hardware implementation that has inherent design problems. In addition, it helps researchers to build and test their prototypes before going to

experimental work.

·**Trainer:** **EXFO, Canada**
Course Title: **Optical Sampling Scope**
Duration: **1 day**

This course covers the usage of 500GHz Optical Sampling Oscilloscope which can directly visualize very high speed optical signals in both time and frequency domains. This scope can be used by researchers actively involved in building next generation high speed optical transmission systems.

·**Trainer:** **Agilent Technologies, Germany**
Course Title: Arbitrary Waveform Generation
Duration: **1 days**

This course shows how to create highly realistic signals for different applications. It also shows how to generate multi-level signals and reproduce analog imperfections with programmable ISI and jitter up to 3 Gb/s.

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

References

Habib Fathallah,

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