

Elhoucine Hadden

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Objective

Application for the phd position Optoelectronic control of magnetism.

Experience

Intern (Second year of Master Internship)

Institut Laue Langevin Grenoble, France
March-2019 - Currently

Currently working under the supervision of Dr Manon Létiche, Dr Tra Nguyen and professor Patrice Gergaud as part of a collaboration within the IRT Nanoélec large scale instruments characterization program between CEA LETI and ILL, on the following subject "Characterization of interfaces widely used in the world of microelectronics and yet subject to delamination problems".

Intern (Second year of Master Internship)

Laboratoire de Micro-Optoélectronique et Nanostructures (LMON)
Faculty of science, Monastir, Tunisia
March-2018 - August-2018

I worked under the supervision of Professor Ridha Mghaieth and Dr. Mansour Aouassa on the fabrication and probing the structural and Optical properties of Si and SiGe on SiO₂ nanostructures.

The obtained results allowed a unique overview on the selective growth of this type of nanostructures widely used in BICMOS devices for telecommunication and photonic applications. Results have been gathered in a scientific paper and submitted for publication.

Volunteer trainee

National Telecommunications Company : Tozeur Regional Telecoms Directorate
Tozeur, Tunisia
August-2017 - August-2017

I learned general informations about :

- signal processing.
- Network cables.
- signal transmission through an optical fiber.

volunteer trainee

Tunisian company of electricity and gas (STEG)
Tozeur, Tunisia
August-2015 - August-2015

- I Learned about electricity's production , distribution and transport. I observed the operation of companies from the inside and acquired new communication skills through contact with both the customers and professionals.

Education

MSc in Semiconductor physics and Photonics

INP-Grenoble Phelma Grenoble, France
2019

Ongoing

MSc in Physics of Materials and Nanostructures

Faculty of science in Monastir.
Monastir, Tunisia
2016-2019

I succeeded as the 2nd of my promotion.

BSc in fundamental physics

Faculty of science in Monastir.
Monastir, Tunisia
2016

I succeeded among the top 10 of my promotion in each year of the BSc.

Skills

- Good use of simulation software for photonics 'Lumerical'.
- Materials characterization: i performed experiments with X-Ray and Neutron Reflectivity, XPS, PC (photocurrent), PL (photoluminescence), TEM and XRD. Moreover, I have worked on the interpretation of experimental results obtained by AFM, SEM and Raman.
- Materials growth: Theoretical knowledge on MBE, CVD, PECVD, RTA and different growth technics of nanostructures: nanorods, thin layers and quantum dots.
- Comfortably deal with computers.
- Good team work and communication skills.
- Flexibility and ability to learn and acquire new skills.

Languages

Arabic

Native speaker

English

Advanced (Level B2 obtained in the British Council's IELTS test)

French

Advanced (Level C1 obtained in the TCF test)

Italian

Introductory level (Read only)