



Khaoula GHEFIRI
Ph.D. in Electrical Engineering
Teaching Assistant,
Digital Systems, Electronic devices and circuits.

khaoula.ghefiri@medtech.tn

EDUCATION

- 2014-Present** Ph.D. cotutelle in Electrical Engineering, between National Engineering School of Tunis (ENIT), University of Tunis El Manar (UTM), Tunisia and Escuela Universitaria de Técnica Industrial Ingeniera (EUITI) at the University of the Basque Country (UPV-EHU) in Spain.
- 2014** Master in Automatic Control and Signal Processing, National Engineering School of Tunis (ENIT), University of Tunis El Manar (UTM), Tunisia.
- 2013** Engineering in Mechatronics, National Engineering School of Carthage (ENICarthage), University of Carthage (UCAR), Tunisia.

RESEARCHINTERESTS

tidal energy, Induction Machines, Automatic Control, Electrical Engineering, renewable energy, power generation ...

EMPLOYMENT EXPERIENCE

ACADEMIC:

- 2016** Teaching Assistant, Digital Systems & Electronic devices and circuits , MedTech, Tunis, Tunisia
- 2014 -2015** Teacher, LabVIEW, L'Ecole Centrale Polytechnique Privée, Tunis, Tunisia

CONSULTING EXPERIENCE OR PROFESSIONAL CERTIFICATION

- 2013** Certified LabVIEW Associate Developer (CLAD), National Instrument (NI).
- 2012** Certified basic training STM32, Compétence Sans Frontières (CSF).

COURSES TAUGHT

- Digital Systems, MedTech
- Electronic Devices and Circuits, MedTech
- LabVIEW programming, Polytech Centrale

Communications in refereed conferences

International

K. Ghefiri, S. Bouallègue and J. Haggège. (2015). *2015 6th International Renewable Energy Congress (IREC)*, IEEE. Modeling and SIL simulation of a Tidal Stream device for marine energy conversion, Sousse, Tunisia.

A. J. Garrido, I. Garrido, E. Otaola, J. Lekube, F. M'Zoughi, K. Ghefiri, D. G. Mundackamattam, and I. Oleagordia. (2016). *IEEE TENCON 2016 – Technologies for Smart Nation. Capture Chamber Modelling and Validation in OWC on-shore Devices*, Marina Bay Sands, Singapore.

Papers under review

K. Ghefiri, S. Bouallègue, I. Garrido, A. J. Garrido and J. Haggège. (2017). Maximum Output Power Control in Doubly Fed Induction Generator-based Tidal Stream Turbines. *IEEE Transactions on Industrial Informatics*, 11 pages.