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SAAD MOTAHHIR

DR., ENG. IN ELECTRICAL
ENGINEERING



Looking for a new challenge



Summary



Doctor of Electrical Engineering and Embedded System Engineer at Zodiac Aerospace Morocco, seeking to invest my personal strengths and develop my professional knowledge within the company while contributing, at the same time, to its evolution and its development.

https://www.researchgate.net/profile/Saad_Motahhir

<https://scholar.google.fr/citations?user=G9AuvGgAAAAJ&hl=fr&oi=ao>

<https://www.linkedin.com/in/saad-motahhir-a5412390/>



Professional and scientific Experiences

2014 - present

EMBEDDED SYSTEM ENGINEER AT ZODIAC AEROSPACE MOROCCO

- Development of UC/OS II based embedded software using C and Model-based Design (Scade).
- Test of Embedded software.
- Validation of requirements and architecture of embedded software.

Software: IBM RTRT, SCADE, IBM Synergy/Change, SlickEdit, Trace 32 and Diab.

Standard & Method: DO-178 B/C and V-Cycle.

Target: Power PC (MPC 5566).

Aircrafts: Boeing, E2 Embraer, A320 NEO and Bombardier G7000.

RESEARCHER IN ELECTRICAL ENGINEERING

- HIGHLIGHTED PUBLICATIONS:

Photovoltaic system with quantitative comparative between an improved MPPT and existing INC and P&O methods under fast varying of solar irradiation ([Elsevier](#))

<https://doi.org/10.1016/j.egy.2018.04.003>

Development of a low-cost PV system using an improved INC algorithm and a PV panel Proteus model ([Elsevier](#))

<https://doi.org/10.1016/j.jclepro.2018.08.246>

A simple and low-cost active dual-axis solar tracker ([Wiley](#))

<https://doi.org/10.1002/ese3.236>

Comparison between Kalman filter and incremental conductance algorithm for optimizing photovoltaic energy ([Springer Nature](#))

<https://doi.org/10.1186/s40807-017-0046-8>

MIL and SIL and PIL tests for MPPT algorithm ([Taylor & Francis](#))

<https://doi.org/10.1080/23311916.2017.1378475>

- REVIEWER FOR :

[IEEE Journal of Photovoltaics](#)

[Solar Energy Journal \(Elsevier\)](#)

[Arabian Journal for Science and Engineering \(Springer\)](#)

[IREC conference \(Tunisia\)](#)

TEMPORARY TEACHER AT ES12A AND EST FEZ (COURSES):

- Embedded system architecture
- Electronic instrumentation
- Automatic code generation for embedded system
- Modeling of Mechatronic systems
- VHDL and FPGA



Diploma



2018

PHD IN ELECTRICAL ENGINEERING « CONTRIBUTION TO THE OPTIMIZATION OF ENERGY WITHDRAWN FROM A PV PANEL USING AN EMBEDDED SYSTEM », EST FEZ

<https://doi.org/10.13140/RG.2.2.24251.52005>

2014

ENGINEER IN EMBEDDED SYSTEM, ENSA FEZ.

2011

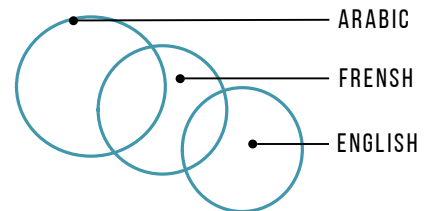
TECHNICAL UNIVERSITY DIPLOMA IN ELECTRICAL ENGINEERING AND INDUSTRIAL ELECTRONICS, EST FEZ.

2009

LIFE AND EARTH SCIENCE BACCALAUREATE. IBN ROCHD HIGH SCHOOL, FEZ.



Languages



ARABIC

FRENCH

ENGLISH



Awards

- Best student in Electrical engineering DUT



Interests

- Fitness
- Reading
- Volunteer work
- Innovation