



**THE CYPRUS
INSTITUTE**

RESEARCH • TECHNOLOGY • INNOVATION

Curriculum Vitae

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The Cyprus Institute
Energy, Environment and Water Research Center
20 Konstantinou Kavafi St.
2121 Aglantzia, P.O.BOX 27456 Nicosia
Cyprus

Academic and Professional details:

Education:

- 2019** PhD in mechanical engineering/ National Engineering School of Monastir (Tunisia)
- 2013** Mechanical engineering degree/ National Engineering School of Monastir (Tunisia)
- 2010** Under-graduation degree in Physics and Chemistry/ Preparatory Institute of Engineering Studies of Monastir (Tunisia)

Professional Experience:

- Dec 2023 - Present** Postdoctoral research fellow in thermal sciences- The Cyprus Institute, Cyprus
- Jul 2017 - Dec 2023** Senior Engineer- Tunisian Chemical Group, Tunisia
- Sep 2016 - Jun 2017** Teacher of mechanical engineering courses- Higher Institute of logistics and transport technologies, Tunisia
- Sep 2014 - Jun 2015** Teacher of mechanical design and manufacturing courses- Preparatory Institute of Engineering Studies of Monastir, Tunisia
- Sep 2013 - Aug 2014** Mechanical design engineer- Metal Manufacture International Corporation, Tunisia/France

Research Experience:

- Modeling and optimizing parabolic trough CSP.
- Modelling and optimizing Heliostats.

- Modelling of solar energy resources using artificial intelligence models (neural network); satellite models, Satellite Imageries, Interpolation models and empirical models.

Teaching Experience (2 years):

- Teaching mechanical design and manufacture courses.
- Teaching courses and workshops of sciences and techniques of the engineer.
- Teaching computer aided design and maintenance management courses.
- Teaching practical workshops of energy and transport technologies.

Management and Administrative experience (8 years):

- Mechanical operation and maintenance engineering/ management of thermal power plant, phosphoric and sulfuric acid plants, chemical fertilizers plants and logistics units (Railways, Maritimes, and land transportations).
- Mechanical Design engineer .

Honours and Achievements:

- Prize of Research and Innovation in the Energy Field (PRIDE) 2022, Tunisia.
- Author of many scientific articles on solar energy and concentrating solar power.
- Presenting in international scientific conferences many researches on concentrating solar power field.

Other Skills:

- Knowledge of standards API, ASME, ASTM applied in the heavy industry.
- CAD softwares, FEM softwares, Programming softwares, management softwares.
- First aid emergency

Training Attended:

- Solar resources assessment (Mines Paristech, France)
- SwitchMed Eco-entrepreneurship (European SwitchMed program, Tunisia)
- ASME BPVC SECTION VIII/ Design and fabrication with inspection repairs, and alterations of pressure vessels (OilGas training, Tunisia)
- ROTARY DRUM/KILN TRAINING (Comspain, Spain)
- Vibration ISO 10816
- Lubrication principals
- ISO 9001 (PFI, Tunisia)

Publications:

- 📖 Loghmari, I., Timoumi, Y., & Messadi, A. (2018). Performance comparison of two global solar radiation models for spatial interpolation purposes. *Renewable and Sustainable Energy Reviews*, 82, 837-844.
- 📖 Loghmari, I., & Timoumi, Y. (2017). Improvement global solar radiation estimation. *IET Renewable Power Generation*, 11(7), 996-1004.
- 📖 Loghmari, I., & Timoumi, Y. (2017, March). Calibration and Correction of the Beam Solar Radiation Models Using High Temporal Resolution Measurements. In *International Conference Design and Modeling of Mechanical Systems* (pp. 551-558). Springer, Cham.
- 📖 Loghmari, I., & Timoumi, Y. (2017, March). Sub-hourly Validation of the Direct Normal Solar Irradiance Clear Sky Models. In *International Conference Design and Modeling of Mechanical Systems* (pp. 39-47). Springer, Cham.