

# ISMAIL. LOGHMARI

34 years old, Tunisian

[loghmari.ismail@gmail.com](mailto:loghmari.ismail@gmail.com)

Apt 203, Limassol Ave.138, Nicosia 2015, Cyprus

(+357) 97442061

## SOLAR ENERGY RESEARCHER & SENIOR MECHANICAL ENGINEER



R&D Solar energy & Concentrating solar power • Winning the prize of Research and Innovation on the Energy Field (PRIDE) 2022 • Senior Mechanical engineer-Thermal and Chemical industry • Teacher • Metallic structure design engineer • Scientific Research • Published Peer-Reviewed Papers.

## WORK EXPERIENCE

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**The Cyprus Institute, Nicosia, Cyprus**

**Dec 2023 – Present**

**Postdoc researcher**

*Research institute*

- Concentrating solar power components: Development and optimization of Smart Heliostats.

**Tunisian Chemical Group, Gabes, Tunisia**

**July 2017 – Dec 2023**

**Senior mechanical Engineer**

*Thermal / Chemical Industry*

- Lead the mechanical operation and maintenance engineering of thermal power plant, phosphoric and sulfuric acid plants, chemical fertilizers plants and logistics units (Railway, maritime, and land transportation).

**Higher institute of transportation and logistics, Sousse, Tunisia**

**Oct 2016 - Jun 2017**

**Assistant professor in mechanical engineering**

*University*

- Improved the methods of teaching computer aided design software *SOLIDWORKS*®.
- Added the practical aspect to the teaching of maintenance management software *OPTIMAINT*®.
- Creating and teaching practical workshops of the transport technologies.

**Preparatory institute of engineering studies, Monastir, Tunisia**

**Sept 2014 – June 2015**

**Teacher of mechanical engineering**

*University*

- Added simulations to the mechanical design and manufacture courses.
- Creating and teaching courses and workshops of sciences and techniques of the engineer.

**Metal Manufacture International Corporation, Sousse, Tunisia**

**Sept. 2013 – Sept. 2014**

**Mechanical design Engineer of metallic structure**

*Metallic structure and Construction French Company*

- Designed, developed, did calculus, enhanced and performed the financial studies of the metallic structure project.

- Created many innovative designs contributing to reduce the project cost by 30%.
- Enhance the precision of the mechanical resistance calculus.
- Project: Musée des confluences (Lyon, France), vegetal walls (France), concentrating solar power...

## EDUCATION

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<b>National engineering school of Monastir, Tunisia</b> <b>PhD in Mechanical Engineering (appreciation: very honorable)</b>	<b>2013-2019</b>
<b>National engineering school of Monastir, Tunisia</b> <b>Engineering/Master's degree in Mechanical Engineering</b>	<b>2010-2013</b>
<b>Preparatory institute of engineering studies, Monastir, Tunisia</b> <b>Bachelor's degree in physics and chemistry</b>	<b>2008-2010</b>

## AWARDS, PUBLICATIONS, CERTIFICATIONS, SOFTWARE, LANGUAGES, HOBBIES



- Author of many scientific articles on solar energy and concentrating solar power. [links of the articles:](#)
- Main published articles:
  - 📖 Loghmani, 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.
  - 📖 Loghmani, I., & Timoumi, Y. (2017). Improvement global solar radiation estimation. *IET Renewable Power Generation*, 11(7), 996-1004.
  - 📖 Loghmani, 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.
  - 📖 Loghmani, 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.
- Innovation Award 2022.
- Solar energy certification, petrol-gas introduction certificate, eco-investments certification, ISO 9001 certification, first-aid diploma.
- **Softwares:** Python, Matlab, Minitab, Solidworks (cad), Catia (cad), Autocad (cad), Abaqus (FEA), Optimaint (cmms), Ivara (cmms), Ms project, Ansys, Mastercam, Rdm6, etc.
- **Languages:** Arabic (Native) French (fluent) English (Professional)
- **Hobbies:** Reading (Physics and technologies), Football, Swimming, DIY, Photography.

## REFERENCES

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- Mr. Youssef TIMOUMI (University professor), Mr. Kamal CHARRADA (University professor) and Mr. Jean Damien DUTAMBY (Project Manager).