



Imen HBIRI MNEJJA

Date of birth: 07/03/1988 | **Nationality:** Tunisian | **Gender:** Female | (+245) 11229 |

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● WORK EXPERIENCE

01/01/2021 – CURRENT – Tunisia
CEO – ROBOCARE

01/04/2020 – CURRENT
EXPERT INDUSTRY 4.0 – SFAX INDUSTRY 4.0 CENTER, TECHNOPOLE DE SFAX

01/06/2019 – 31/03/2020
PROJECT MANAGER – SAMM TEST AND AUTOMATION

- Manage the design and the implementation of smart production lines
- Program KUKA and Staubli Robots
- Review automotive industrial production processes
- Advice on opportunities to introduce robotics in the production process
- Build and install an industrial vision system

<http://www.samm-automation.com/> | Rue du Parc, La Soukra Ariana, 2036, Tunis

01/11/2013 – 01/08/2017
CTO – ROBOTIKA TECHNOLOGIES

- Manage the design and the implementation of an autonomous in-tank-oil-inspection robot
- Responsible for the R&D team working on new technologies implementation

<http://www.in-robotics.com/solution.html> | SFAX, Tunisia

01/07/2012 – 30/11/2013
PRODUCT MANAGER – MEDLIGHT

- Coordinate between different workshops according to customers'needs and stock demands
- Planning worker activities
- Launch and follow production orders
- Evaluate, develop and promote employees'skills

<http://medlight.com.tn/> | SFAX, Tunisia

● EDUCATION AND TRAINING

2013 – 2018
PHD DIPLOMA – Co-tutelle ENIS (Sfax, Tunisia)/Rice University (Houston, USA)

Industrial Contribution: Design and implementation of a swimming robot for oil tank inspection (<http://www.in-robotics.com/solution.html>): Mechanical, electrical and electronic design, design the control algorithm to be implemented to the appropriate processor, implementation, tests, and validation....

2011 – 2013 – Houston, United States
MASTER DIPLOMA – Dual-Degree Master of Science in Robotics in Partnership with Rice University

2009 – 2012 – SFAX, Tunisia
ELECTROMECHANICAL ENGINEER – ENIS

2007 – 2009 – SFAX, Tunisia
FIRST CYCLE DIPLOMA – IPEIS (Institut Préparatoire aux Etudes d'Ingénieurs de Sfax)

Specialization: Technology PT Rank: 36/856

2003 – 2007
BACCALAURÉAT

Specialization: Mathematics

● LANGUAGE SKILLS

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	C1	B1	B1	C1
FRENCH	C1	C1	B2	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● PUBLICATIONS

Publications

- Journal Papers
 - Hbiri I. Karkri H. Choura S. Ghorbel.F , “Modeling and Parameter Estimation of an In-Tank Swimming Robot”, ASME Journal of Dynamic Systems, Measurement and Control.
 - Omar Triki, Imen Hbiri, Hafedh Trabelsi Design and Implementation of an Inspection Class of Underwater Vehicles. Advances in Systems, Signals & Devices, Communication, Signal processing & Information Technology
- Conference Papers
 - N. Kchaou, I. Hbiri O. Triki A. Maalej and F.H. Ghorbel “THRUST FORCE OPTIMIZATION OF INLINE PUMPS” The International Conference on Advances in Mechanical Engineering and Mechanics. 2016.
 - Triki, O., Hbiri, I., Kchaou, N., & Trabelsi, H. (2016, March). Methodology of embedded system design for underwater vehicle. In 2016 13th International Multi-Conference on Systems, Signals & Devices (SSD) (pp. 542-547). IEEE.

● ORGANISATIONAL SKILLS

Organisational skills

- Leadership (I was responsible for a team of 50 labors and 5 technicians)
- Good team-leading skills gained as a project manager and as a founding member of the Competence Network Tunisian Association

● COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- Good communication skills with team and partners through my experience as a senior production manager and as a member at the ENIS scientific board (2012-2014)
- Good negotiator

● TRAINING

Training

- **IoT** WorkShop of 3 Days where we implement an IoT solution from data acquisition to Data processing and monitor
- **Machine learning** WorkShop at ENET'COM
- **Project Management** (Certified from TenStep EPM Tunisia, Regional partner of TenSteo Inc USA June 2014)
- **NLP**: Neuro-Linguistic Programming (Certified from the International Neuro-Linguistic Programming Trainer's Association (**INLPTA**) 02/2017)
- **Leadership Diamond Africa** (Certified from Dzagora University, Eclée. 07/12/2017)
- **Acting Against Corruption** (Certified from PNUD in Collaboration with "Institut Arabe des Chefs d'Entreprises" (May 2014)
- **Embedded Hardware and Operating Systems** (EIT Digital European Institute of Innovation and Technology) MSc Department of Information Technology, Faculty of Mathematics and Computer Sciences, University of Turku, Finland at coursera

● EDUCATIONAL EXPERIENCE

Educational Experience

- **2018 to Now**: Expert at ENET'COM Ecole Nationale d'Electronique et des Télécommunications de Sfax
 - **Course**: robotics, smart control strategies
 - **Lab**: Implementation of a mobile robot open loop then closed loop
- **2013 to 2018**: Contractual assistant professor at ISGIS « Institut Supérieur de Gestion Industrielle de Sfax »
 - **Course**: Microcontroller, robotics, Arduino
 - **Lab**: Solidworks, microcontroller, Arduino and robotics
 - **Robotic Club**: Launcher and responsible for the robotics club at ISGIS

● TRAINEESHIPS

Traineeships

- 01-06/2012: **PFE** at Telnet
 - **Subject**: Design of swimming robot in a hazardous environment and implementation of its scaled model
- 06-07/2011: **IET** (Industrial Engineering Technology)
 - **Subject**: Design of water network to fire detection, water hammer
- 03, 07and 08/2010: **MIG** (Mediterranean Industrial Group)
 - **Subject**: Structural design with AutoCAD and Professional Robot Structural Analysis
- 04/2010: **SNCFT** (Société National des Chemins de Fer Tunisiens)
- 01/2010: **GCT** (Groupe Chimique Tunisien)
- 12/2009: **CPG** (Company PhosphatesGafsa)
- 11/2009: **ECL** (Enterprise Chafik Louki)