



# SKANDER HELALI

## CURRICULUM VITAE



Date of birth / 22/04/1998 Age / 26  
Nationality/ citizenship / Tunisia  
Piazza A. de Gasperi 47, 35131  
PADOVA (PD)

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## FOREIGN LANGUAGE SKILLS

MOTHER TONGUE(S): Arabic



ENGLISH EXCELLENT	C2	C2	C2	C2	C2
FRENCH GOOD	C2	C2	B1	B1	B1
ITALIAN LIMITED	A2	B1	A1	A1	A2

## DIGITAL COMPETENCES

### DigComp

Information and data literacy **Proficient user**  
Communication and collaboration **Proficient user**  
Digital content creation **Proficient user**  
Safety **Proficient user**  
Problem solving **Proficient user**

## EXPECTATIONS AND FEATURES OF THE DESIRED JOB

ECONOMIC SECTOR: 1. energy, gas, water, mining / 2. communication and telecommunications / 3. computer science, data processing and acquisition

CAREER FIELD: 1. R&D and patents / 2. Engineering and design / 3. Information systems, EDP

DESIRED JOB: **Cybersecurity Engineer**

PREFERRED DISTRICT TO WORK IN: 1. **PADOVA** / 2. **MILANO**

AVAILABILITY FOR BUSINESS TRAVELS: **Yes, including relocation**

AVAILABILITY TO RELOCATE ABROAD: **Yes, but only in Europe**



## WORK EXPERIENCES

### software engineer M31 SRL

*Computer science, data processing and acquisition*  
PADOVA (PD)  
01/2025 - 04/2025

**Main activities and responsibilities:** R&D: Firmware & Cloud:

- Analysis of Existing Technologies: Researched current IoT firmware update systems (Mender, RAUC, SWupdate), evaluating functionality, security, efficiency, and scalability. Conducted a comparative analysis.
  - System Design: Defined requirements and developed an architecture for a secure and efficient firmware update system, with integrity verification and rollback capabilities.
  - Prototype Implementation: Created and tested a prototype with IoT devices to assess functionality and efficiency.
  - Documentation & Evaluation: Documented and tested the prototype for performance, security, and reliability.
- Employed as: intern/trainee - undergraduate internship | Number of hours: 480 | Company sector: R&D and patents

### OT cybersecurity trainee EMERSON PROCESS MANAGEMENT (EMEA)

*Infrastructures, construction industry*  
DOHA (QATAR)  
03/2021 - 02/2022

**Main activities and responsibilities:** - Projects: OT Cybersecurity for oil & gas (QP DPFU & QP CCWS):

- Performed loop checks, validated DeltaV DCS/SIS controls, and ensured cybersecurity compliance.
- Reviewed and approved project documentation (P&IDs, drawings, schedules).
- Tested serial and Foundation Fieldbus communications.
- Configured Modbus firewalls, switches, DeltaV solutions, and CISCO switches.
- Implemented ePO, whitelisting, backup, patching, USB port blocking, and user policies.

Employed as: apprentice - fixed-length contract | Company sector: Engineering and design

### electrical engineer QATAR PETROCHEMICAL COMPANY (QAPCO)

MESSAEID (QATAR)  
09/2020 - 02/2021

**Main activities and responsibilities:** - Completed confined space entry, working at heights, electrical/pneumatic controls, firefighting, permit to work, SAP, and radiation safety training.

- Performed preventive maintenance, commissioning, and troubleshooting of transformers, motors, pumps, control panels, and SIEMENS/Schneider DCS/PLC controls.
- Supported engineers and supervisors during plant shutdowns and startups.
- Worked with MV (33KV-11KV) and LV (20V) networks in various substations.

Employed as: apprentice - fixed-length contract | Company sector: Manufacturing

### assistant researcher in university TEXAS A&M UNIVERSITY

*Biomedical*  
(QATAR)  
01/2018 - 05/2020

**Main activities and responsibilities:** - Undergraduate Researcher and Author of a Conference Paper:

- Developed a non-invasive hand tremor sensor for detecting hypoglycemia onset.
  - Created an Android Wear app for tremor detection in hypoglycemic events.
  - Processed survey and accelerometer data for ML-assisted feature extraction using MATLAB.
  - Produced plots, figures, and graphs for CRHT-Q publications.
  - Conference paper (submitted): 'Influence of Fatigue on Physiological Tremor,' Nano Medicine 2020, Czech Republic.
  - Acknowledged for data analysis in "Diabetes Management Experience," JMIR Diabetes, Canada. DOI: 10.2196/17890.
- Employed as: intern/trainee - undergraduate internship | Company sector: R&D and patents

electrical engineering  
assistant  
**QATAR PETROCHEMICAL  
COMPANY (QAPCO)**  
*Energy, gas, water, mining*  
MESSAIED (QATAR)  
05/2018 - 08/2018

**Main activities and responsibilities:** - Completed an eight-week internship at Mesaieed plant, focusing on safety and industrial training.  
- Gained knowledge of LDPE, LLDPE, and Ethylene production processes.  
Employed as: intern/trainee - internship | Company sector: Manufacturing



## ACADEMIC STUDIES

**MASTER'S DEGREE**  
2023 - 2025  
**ONGOING STUDIES**



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA

**Università degli Studi di PADOVA**  
**Corso di Laurea Magistrale in Sicurezza Informatica**  
LM-66 - 2nd level degree in Computer security  
Expected degree mark: **100/110**  
Expected graduation date: 01/12/2025

**BACHELOR'S DEGREE**  
2016 - 2020  
**UNITED STATES OF  
AMERICA**

**Texas A&M University**  
**Faculty: College of Engineering**  
**Electrical Engineering**

Dissertation/thesis title: GlycoTrem: Hypoglycemia/Fatigue Tremor Detection using Wearables | Thesis supervisor: Dr. Khalid Qaraqe  
Age at graduation: 22 | Official duration: 4 years  
Final degree mark: **89/100**  
Graduation date: 07/05/2020



## FOREIGN LANGUAGE SKILLS

**English** TOEFL iBT (114/120), ETS, 2015 , **Europass level C2**



## INFORMATION TECHNOLOGY SKILLS

### COMPUTER PROGRAMMING

**Build Automation:** Docker (Advanced) | **Firmware and software for the industrial electronics:** (Intermediate) | **Programming languages:** C (Intermediate) , Go (Foundation) , Java (Intermediate) , MATLAB (Advanced) , PHP (Intermediate) , Python (Advanced) | **Web Programming:** Nginx (Advanced)

### SYSTEMS AND NETWORKS MANAGEMENT

**Embedded systems:** Buildroot, Yocto (Advanced) | **Network architecture:** (Advanced) | **Operating systems:** Linux (Advanced)

### SECURITY

SIEM (Intermediate) | **Antivirus:** ePO & Whitelisting (Advanced) | **Backup and Restore:** (Advanced) | **Cryptography:** (Advanced) | **Firewall:** Nozomi (Intermediate) | **Penetration test:** Wireshark (Advanced)



## PROFESSIONAL ACCOLADES AND AWARDS

**AWARD / SCHOLARSHIP**  
2024

**Invest Your Talent in Italy Scholarship**  
Scholarship providing a monthly stipend, exemption from tuition fees, free Italian language courses, and an internship with an Italian company. (2 years)  
[investyourtalentapplication.esteri.it](https://investyourtalentapplication.esteri.it)

**AWARD / SCHOLARSHIP**  
2020

**Texas A&M University Excellence Awards**  
Dean's Honor List: for academic excellence with a GPA of 3.75+ for the Spring 2020 semester.  
Distinguished Student Award: for academic achievement (3.5+ GPA) for the Fall 2016 & 2017 semesters.