

Skander Helali

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Education

Texas A&M University, BSc. Electrical Engineering | GPA: 3.30 | Doha, Qatar, 08/2016 – 05/2020

Research Experience

Center for Remote Healthcare Technology (CRHT-Q), Texas A&M University

Doha, Qatar,
01/2019 – 05/2020

Undergraduate Researcher and Published Author,

- Developing a smart, non-invasive hand tremor sensor that can detect the onset of hypoglycemia.
 - Integrate and develop an application for hypoglycemic event tremor detection on an Android Wear powered watch.
 - Processed a diabetic patient survey along with accelerometer data for ML assisted feature extraction using MATLAB.
 - Produced all associated plots, figures, and graphs used in all published papers at CRHT-Q since joining the project.
- **Published a conference paper** as a first author: "Influence of Fatigue on the Physiological Tremor in Healthy and Diabetic Persons", Nano Medicine 2020, Prague, Czech Republic.

Senior Design Project

GlycoTrem, Hypoglycemia & Fatigue Detection through Tremors using Wearables – www.GlycoTrem.com

Professional Experience

Qatar Petrochemical Company (QAPCO),

Doha, Qatar,
06/2018 - 08/2018

Summer Intern

- Took part in an eight-week summer internship program that emphasized the practical applications of classroom theory and engineering skills in the petrochemical industry.
- Safety and industrial training in the QAPCO Mesaieed plant along with a series of workshops addressing technical and soft skills.
- Explored the desalination stations, power substations, and the plant's electrical single line diagram. Shadowed engineers performing their duties and preventative maintenance tasks.
- Led a team of 6 to 2nd place in the annual "Summer Internship Heroes" safety innovation competition and presented our solution to QAPCO management and HSSE staff.

Directly Experts, Contracting for Samsung Mobile / Electronics,

Remote - Online,
2016 - 2019

Customer Support Agent, Remote, Part Time

- Providing one-on-one technical support and user assistance online for a range of Samsung products including smartphones, tablets, smartwatches, and smart home appliances through the Directly Experts platform.
 - Fully resolved over 150 customer support tickets without re-routing to Samsung representatives.
 - Maintained an 85+ CSAT (customer satisfaction) rating and amassed over 500 endorsements from fellow experts.
- Assisted in training and embedding answer templates for an automated bot that aims to assist in customer query resolution.

Accredited Training

Introduction to Cybersecurity, CISCO Networking Academy, USA.

Doha, Qatar, 2020

Introduction to IoT, CISCO Networking Academy, USA.

Doha, Qatar, 2020

Engineering Leadership for Emerging Leaders, Institute of Leadership and Management (ILM), UK.

Doha, Qatar, 2020

Contributing to Projects, Shell TAFAWOQ (Qatar Shell, Qatar Petroleum, and HBKU).

Doha, Qatar, 2019

Working Safely, Institution of Occupational Safety and Health (IOSH).

Doha, Qatar, 2019

Engineering Enrichment Program (EEP)

Building and Activating 3D Printers, Texas A&M University.

Doha, Qatar, 2019

General Electric (GE), Aviation Training, General Electric, Science and Technology Park.

Doha, Qatar, 2018

ENGR-CNCLC (CNC Laser Cutting), Texas A&M University.

Doha, Qatar, 2018

ENGR-WCNC (Wooden Works using CNC Router), Texas A&M University.

Doha, Qatar, 2018

ENGR-ITP (Introduction to Python), Texas A&M University.

Doha, Qatar, 2017

ENGR-MVE (Microsoft Visio for Engineers), Texas A&M University.

Doha, Qatar, 2017

ENGR-CLAD (Certified LabVIEW Associate Developer), Texas A&M University.

Doha, Qatar, 2016

ENGR-IAB (Introduction to Arduino Board), Texas A&M University.

Doha, Qatar, 2016

Awards & Honor Societies

Dean's Honor Roll, Texas A&M University Qatar.

Spring, 2020

Eta Kappa Nu (HKN), Honor Society Member.

Inducted Fall 2017

Distinguished Student Awards, Texas A&M University at Qatar.

Fall 2016 & Fall 2017

IEEE, Member and past Treasurer.

2016 - Present

Qatar National Robot Olympiad, Second place winner.

Doha, Qatar, 2014

Achievements, Knowledge, & Skills

- **Technical Skills:** C, C#, C++, Python, Java, MATLAB, LabVIEW, Verilog, Microsoft Office, Arduino, Raspberry Pi.
- **Languages:** Arabic (Native), English (Native Proficiency), French (Fluent), Spanish (Working Proficiency).
- **Volunteering & Events**
 - Carnegie Mellon University Hacking Games, 2017 Contestant
 - Hamad Hospital Dialysis Centre, Volunteer (30 hours)
 - Ministry of Public Health and Qatar Red Cross, Volunteer for COVID-19
- **Other Conferences:** "Gender Divide in Qatar: Analysis, Causes, and Effects", (Liberal Arts International Conference 2018, Doha).