

Karem BenChikha



Industrial and Automation
Computing Student

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[KaremBenChikha](https://github.com/KaremBenChikha)

PROFESSIONAL EXPERIENCE

- Perenco** *Oil & Gas Company*
DCS automation intern (Jun 2019 – Jul 2019)
- Assisted 2 Automation Engineers in DCS control rooms.
 - Updated control logic documents and designed a HMI to control new pumps increasing Natural Gas flow by 15%.
- Valeo** *Global Automotive Manufacturer & Supplier*
Quality Project Management Intern (Jul 2018 - Aug 2018)
- Drew up quality assurance documents for a production line of a new Product.
 - Analyzed production KPIs and developed effective solutions improving the occurrence of Haptic defects from 82% to 27%.
- PeakSource** *Information Technology & Services Agency*
Electronics intern (Jun 2017 - Jul 2017)
- Tested and assisted with programmable lighting devices and audio-video equipment.
 - Programmed NAO Robot to perform in press conferences.

EDUCATION

- Florida Gulf Coast University**
Entrepreneurship Student (Fall 2019 - Spring 2020)
relevant courses: Business Analytics, Creativity, Lean Startup.
- National Institute of Applied Science and Technology**
Industrial and Automation Computing student (2015 - Current)
relevant courses: Industrial Regulation, Automatic systems, Electrical Engineering, Robotics, Mechanical Design.

CAMPUS INVOLVMENT

- Amazon Web Services**
Student Ambassador Cohort of 2020
- Lectured Campus students on the integration of AWS services in the Internet of things and robotics.
- Florida Gulf Coast University International Office**
Eagle International Ambassador Fall of 2019
- Volunteered in international office campus programs, organized cultural events and led community service activities.
- AeROBOTiX Club INSAT**
Technical Trainer and Projects Manager (2015 - 2019)
- Coached and mentored students to build their robots and science projects.
 - Supervised technical workshops in robotics and electronics.

ACADEMIC PROJECTS

- Facemask Detection** Algorithm with machine learning model to identify people wearing facemasks. Sep 2020
- Trained a Neural Network model on a dataset with a prediction accuracy of 96% and Implemented it in an OpenCV algorithm to detect faces and command an Arduino to authorize or block access.
- Ball and Beam** PID control with LabView to stabilize a ball on a beam. May 2019
- Coordinated with 2 classmates to implement a PID controller on an Arduino in a mechanical system.
- Cloud Supervised Factory** IOT Monitoring of sensors and actuators in an educational SIEMENS Factory. Jan - Mar 2019
- Established a communication between Raspberry Pi and SIMATIC S7 controller via MQTT.
- Smart Aquarium** Gadget to monitor and control vitals of fish in a home aquarium via ESP32. Feb - May 2018
- Headed a team of 4 students into finalizing the project and winning second prize in IOT Tunisia Hackathon.
 - Brainstormed both business model ideas and technical solutions for the gadget's modules.

SKILLS



CERTIFICATIONS

- AWS Fundamentals
- Industrial IOT on google Cloud Platform
- Real time Embedded Systems
- Mastering Programming with MATLAB
- Solidworks Certified Professional (CSWP)
- Yellow Belt Lean Management and Manufacturing
- TOFEL ITP (580/677)

HONOR AWARDS

- Thomas Jefferson Scholarship Program 2019 - 2020 by U.S. Department of State
- BIAT Foundation Elite Scholar 2015 - 2020 by BIAT Bank of Tunisia
- Dean's List Academic Award for Fall 2019 by Florida Gulf Coast University

LANGUAGES

- English** Full professional proficiency
- French** Professional working
- German** Elementary