

Karem BENCHIKHA

karembenchikha.me | github: KaremBenChihka | kbenchikha4886@eagle.fgcu.edu | linkedin.com/in/karembenchikha

EDUCATION

Florida Gulf Coast University Aug 2019 – Mai 2020 | Fort Myers, FLORIDA

One Year non-degree Business Exchange Student

Thomas Jefferson UGRAD Scholar by U.S. Department of State.

Relevant coursework: *Business Analysis, Lean Analytics, Creativity, Business Ventures, Statistics.*

National Institute of Applied Science and Technology 2015 – Current | Tunis, TUNISIA

Fifth Year Industrial and Automation engineering Student

BIAT Foundation Elite Scholar by BIAT Bank of TUNISIA.

Relevant coursework: PID Control, Robotics, Electronics, Embedded Systems, Mechanical Design.

PROFESSIONAL EXPERIENCE

Perenco Oil and Gas *DCS automation intern* Jun 2019 – Jul 2019 | Sfax, TUNISIA

- Assisted Automation Engineers in DCS control rooms.
- Updated P&ID and control logic documents for the integration of two new pumps in the system.
- Designed Human Machine Interface for controlling the new pumps with LabVIEW.

Valeo *Quality Project Management intern* Jul 2018 – Aug 2018 | Ben Arous, TUNISIA

- Worked closely with engineers to deliver projects, develop effective solutions, and meet deadlines.
- Drew up quality assurance documents for a new production line and implemented a KPI dashboard.

Peak source *Electronics and IT intern* Jun 2017 – Jul 2017 | Tunis, TUNISIA

- Tested and assisted with programmable lighting devices and audio-video equipment.
- Programmed NAO Robot to perform in shows and press conferences.

CAMPUS INVOLVMENT

Amazon Web Services *Student Ambassador* cohort of 2020 (current) | Seattle, WASHINGTON

- Currently learning cloud development and it's integration in robotics and Internet Of Things.

SPARK Club INSAT *Coach* Mar 2019 – May 2019 | Tunis, TUNISIA

- Assisted school kids in entrepreneurship and business presentations.

AeROBOTiX Club INSAT *Projects manager* Sep 2017 – May 2018 | Tunis, TUNISIA

- Guided and mentored students to build their robots and science projects.
- Participated in national hackathons (2nd place IOT Tunisia 2018, 1st place in TuniRobots'17 & 18).

Skills + Certifications

- Programming: Python (OpenCV & TensorFlow libraries), Linux & embedded C, LabVIEW.
- Design: Solidworks (CSWP Certified), CATIA V5, Eagle PCB design.
- Cloud: AWS (EC2, S3, Lambda, IOT Core & Analytics), Node Red, MQTT.
- Simulation and Statistics: Minitab, Arena, Excel, MATLAB.
- High proficiency in English (B2 in TOFEL ITP), Professional in French and Elementary in German.

ACADEMIC PROJECTS

- Monte Carlo Simulation: Excel simulation to predict the prices of Airbnb's in NYC.
- Ball and Beam: PID control on Arduino with LabView to stabilize a ball on a beam.
- Cloud Supervised Factory: IOT Monitoring of sensors and actuators in a small SIEMENS factory.
- Smart Aquarium: Phone App to monitor and control vitals of fish in a home aquarium via ESP32.
- Smart Mirror: 2-way mirror powered by a Raspberry Pi to show emails, notifications, and weather.
- Walking Robot: Biped with servomotors to imitate natural human walking movements.

REFERENCES

- Jason LORTIE, Professor in Entrepreneurship, FGCU, jlortie@fgcu.edu, (954)-288-8341.
- Olfa BOUBAKER, Professor in Control Systems, INSAT, olfa.boubaker@insat.rnu.tn.