Souad Hassen-Bouzouita

LinkedIn: Souad Hassen-Bouzouita ● Sanford, FL 32771 ● (240) 840-6884 ● souadsalahh@gmail.com

Skills - Languages

- **Programming Languages:** JavaScript, TypeScript, Python, SQL, PL/SQL
- **Frontend**: React, HTML, CSS, Tailwind, Zustand
- **Backend:** Node.js, Express.js, MongoDB, PostgreSQL, REST APIs, GraphQL
- **Other**: Agile Methodologies, Git, Github Actions, Cypress, Ignition, Emulate3D
- **Languages*:* Fluent (Reading, writing, and speaking) in English, Arabic & French

Professional Experience

Manager of Software Engineering | 01/2024 - Present

CLX Engineering – Sanford, Florida
- Build and nurture strong customer relationships, ensuring alignment with their needs and managing expectations effectively
- Oversee project execution by setting clear goals, timelines, and deliverables while coordinating with cross-functional teams
- Deliver comprehensive weekly project updates and actionable strategic recommendations to the leadership team

Full-Stack Development Projects | 07/2024 – 01/2025

University of Central Florida – Orlando, Florida
- Friends Without Benefits (MERN Stack): A multiplayer scavenger hunt game where you **use your webcam** to find common objects, score points, and climb the leaderboard. Features include real-time object recognition with a custom **TensorFlow model**, video feeds, chat functionality, and competitive gameplay. Demo Link
- Cat-GPT (PERN Stack): An interactive virtual pet application leveraging **React** for the front end **and Node.js + Express** for the back end. Users engage with AI-powered pets in real-time, with **GPT-based** chat functionality enabling dynamic interactions. Demo Link
- NewbieFit: (HTML, CSS, JS): A motivational web app designed to encourage gym attendance and fitness routines. Demo Link

Project Engineer & Project Lead | 04/2021 – 01/2024

CLX Engineering – Sanford, Florida
- Building airports' Scada systems from scratch; Upper-level communication with PLC, graphics, field devices configuration
- Hands-on experience at different airports (BNA -Nashville, MSY -New Orleans, COS -Colorado Springs, CAE -Columbia)
- Hands-on experience with Automation products and practical problem solving on job sites

Quality Engineer | 12/2019 - 12/2020

Remy Automotive Tunisia - Monastir, Tunisia
- Led the warranty project and assisted warranty analysis using Oracle EBS
- Collaborated with Sales, Engineering, and Production to identify issues, evaluate solutions and resolve customer concerns

Internships | 02/2019 – 08/2019

Pprime Institute - Robioss Laboratory - Poitiers, France
- Improvement of the Dynamic compensation of a collaborative robot in context of medical applications
- The Dynamic compensation was done on the 7 DoF Franka Emika robot |Keywords: Matlab, Simulink, ROS

Publications

Salah S., Sandoval J., Ghiss M., Laribi M.A., Zeghloul S. (2020) *Online Payload Identification of a Franka Emika Robot for Medical Applications*. (eds) *Advances in Service and Industrial Robotics*. RAAD 2020. *Mechanisms and Machine Science*, vol 84. Springer

Education

Full-Stack Development Certificate| University of Central Florida **| 2024 – 2025**

Master of Engineering in Mechatronics | National School of Engineers of Sousse ENISo, Tunisia **| 2014 - 2019**
- Member of **Institute of Electrical and Electronics Engineers (IEEE) | 2016 – 2019**
- Chairwoman: **IEEE WIE** (Women in Engineering) Affinity Group **| 2014 – 2019**
- Vice chair: **IEEE WIE Affinity Group | 2016 – 2019**
- Committee chair: **Convergence Forum - ENISO & SHE LEADS Event | 2017 – 2018**