Elias Helou

COMPUTER AND COMMUNICATIONS ENGINEER

elias.elhelou.lb@gmail.com
+961-71-955-141
Lebanon

EDUCATION

Saint Joseph University USJ
Computer and communication engineer *Sep 2019 – present*

International College IC

EXPERIENCE

Intern

Ntlmed Consulting *july 2023- Sep 2023*

I participated in a project whose objective is to provide a hospital with a full road map of business development in the Middle East. I assisted the team in providing a fast overview of the healthcare system and market dynamics; the market volume per selected procedure; and a list of centers of excellence, tariffs, and coverage in each country

PROJECTS:

Automation of News Collection and Relevance Analysis using Selenium and ChatGPT
Recently, I automated tweet extraction with Selenium. Technology, finance, and the economic news from the past 24 hours was my emphasis. This project required web automation knowledge to explore and process Twitter data. Using ChatGPT, I read and processed tweets after extracting text and engagement metrics. I found the most relevant tweets using NLP. This project taught me how to use cutting-edge AI technology to monitor and understand real-time social media trend data and improve my Python skills.

Smart Power Management System for Hospital Generators and Solar Panels
I have programmed the Raspberry Pi to perform various crucial functions for our system. Data is collected by sensors and current transformers, digitized by the Arduino, and then sent to the Raspberry Pi. The Raspberry Pi is programmed to analyze data from hospital generators and solar panels, make decisions on power management, and send commands back to the control systems of these generators and solar panels. Additionally, the Raspberry Pi uploads this data to a central server where it is stored in a database for future access and analysis. Users can access the system via a dedicated application that communicates with the Raspberry Pi, providing real-time data visualization and manual control options.

Smart Watch Application Development
As part of a project, I created a smart watch application using java that retrieves information from watch sensors, such as heart rate. The application displays this information on the watch and then encrypts it using homomorphic encryption. The encrypted data is sent to a server where operations are performed to calculate the average heart rate.

Skills & Interests

Technical C++, Python, Java, SQL.

LANGUAGE French (native), Arabic (native), English (full working proficiency)

HOBBIES Reading, Coding, Running, Drone photography.