

Rawan Oud

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OVERVIEW

A highly motivated and structured computer engineering student seeking an internship opportunity and aiming to apply my acquired skills, knowledge, and experience to aid the company's operations.

EDUCATION

Bachelor of Engineering, Lebanese American University (LAU), Byblos, Lebanon August 2019 – May 2024

- **Major:** Computer Engineering
- **Minor:** Biology

Lebanese Baccalaureate in General Science (with honors), Beirut Baptist School, Beirut, Lebanon June 2019

PROJECTS

Non-Parametric Learners: Handwritten Character Recognition, Intelligent Engineering Algorithms Course November 2022

- Implemented **several feature extraction algorithms** (Canny and Sobel edge detection, histogram of oriented gradients, projection histogram, pixel intensity, aspect ratio etc.)
- Implemented **multiple non-parametric learning agents** (k-NN, SVM, and an **ensemble of both**) to recognize handwritten characters based on the extracted features
- Integrated the above points into a **ReactJS web application** using **Flask** to provide users with the option to combine and evaluate different features and learning agents

Project Room Management System, Digital Systems Lab May 2022

- Designed a room management system with two modes (normal and administrator) each having different features
- Implemented the system on the **Altera Quartus** using **Verilog**
- Tested the system on the **Altera DE2-115 FPGA board**

Semi-structured Text Document Search Using VSM, Intelligent Data Processing & Applications Course May 2022

- Developed an **IR-based document similarity** evaluation measure that computes the similarities between two **XML documents** using a **Vector Space Model** approach (considers the structure and content of the documents)
- Developed an **interface** allowing the user to **query a text document collection** using keyword or semi-structured queries

Online Farm Marketplace, Database Systems Course December 2021

- Implemented a **farm management** and **marketplace database** using **MySQL**
- Implemented a **CRUD windows application** with the farm management database using **JavaFX**
- Integrated a farm marketplace with the database as a website for customers to shop for products using **CSS, HTML**, and **Flask**

Music Player, Microprocessors Lab November 2021

- Implemented a **music player** program using **HCS12 assembly language** that plays two different songs using a buzzer, toggles the LEDs according to the noted being played, and displays the lyrics on an LCD screen
- Tested the program on an **MC9S12DT256 Freescale microcontroller**, interfaced with **CSMB12 Module**, mounted on a **PBMCUSLK Project Board**

SKILLS

Software: Altera Quartus | Analog Devices LTspice | CodeWarrior IDE | EASY68K | Eclipse | GitHub | IntelliJ IDE | MySQL | ModelSim | PyCharm

Hardware: Altera DE2-115 Development and Education Board | CSMB12 module | MC9S12DT256 Freescale Microcontroller | PBMCUSLK Project Board | Electronic Circuit Assembly, Measurement, and Debugging (DMMs & Oscilloscopes)

Programming Languages: CSS | HCS12 Assembly | HTML | JAVA | MATLAB | Motorola 68000 Assembly | Python | SQL | Verilog | VHDL

Languages: **English** (Advanced: Oral + Written) | Arabic (Native)

WORK-STUDY EXPERIENCE

Library IT Assistant, Lebanese American University, Byblos, Lebanon January 2020 – May 2020

- Assisted the IT department with general technical support and maintenance

EXTRA-CURRICULAR ACTIVITIES

Member, Artificial Intelligence and Cognitive Science Club, LAU September 2020 – September 2021

- Frequently attended the club's workshops and events