JESSICA KORKMAZ

PROFILE

Dedicated and hardworking, I am a fourth year electrical engineering student who is able to work for long hours with a team of people from various backgrounds.

CONTACT

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HOBBIES

Playing the piano
Passion for French literature

LANGUAGES

English, Fluent
French, Fluent
Arabic, Fluent

EDUCATION

LEBANESE AMERICAN UNIVERSITY, BYBLOS CAMPUS
2019 - Present (Expected graduation in Fall 2022)
Bachelor of Engineering, Electrical Engineering, Fourth year, Current GPA 3.94

ATHENEE DE BEYROUTH, BSALIM
2004 - 2018
French Baccalaureate with honors (18.75/20)

ENGINEERING PROJECTS

Final year project: Fully automated aeroponic system
Designing, simulating and building a fully automated aeroponic system to deal with the current Lebanese Agricultural crisis. Implemented the sensor network as well as designed the irrigation system.

Rock, Paper, Scissors, Lizard or Spock (RPSLS) digital circuit game
Implementing the RPSLS hand game by means of digital circuit for two players with the winner displayed on a seven -segment digital display. Designed and wrote the project report including a research on the 555 timer and all the delay, power and cost calculations.

Power system analysis using Power World Simulator
Simulation of a real power system to display the load on transmission lines and voltages at bus. Diagnosed the problem and solved it by deciding on different types of compensation

EM Cancer Zappers
Presented an individual research paper on the use of electromagnetic fields in treating cancerous tumors. Summarized and presented all the new biomedical research on microwave ablation and irreversible electroporation (IRE).

GAMS implementation of HESS storage system
Implemented on GAMS the results of a research paper on the optimal size of a battery-ultracapacitor storage battery to reduce the operational costs of renewable energy integration.

TECHNICAL SKILLS

MATLAB, Expert level

DIALUX, Intermediate level
AUTOCAD, Intermediate level
GAMS, Beginner level
PVSyst, Beginner level

MICROSOFT OFFICE, Expert level

BASIC CIRCUIT DESIGN AND MEASUREMENT EQUIPMENT, Intermediate level

POWER WORLD SIMULATOR, Intermediate level

ORCAD PSPICE, Intermediate level

JAVA PROGRAMMING LANGUAGE, Intermediate level

MOTOROLA ASSEMBLY LANGUAGE, Beginner level