

# ELIO SAADE

## Electrical Engineering Student

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Ballouneh, Lebanon

elio-saade

Last update date: March 28, 2022

## EXPERIENCE

### R&D Engineer - Intern

#### dox Technologies Inc.

Jan 2022 – Present

Beirut, Lebanon

- Researching lithium-ion cell-to-pack modeling and simulation methods
- Developing and testing a cell-to-pack model using MATLAB, Simulink and Simscape
- Researching battery modeling and simulation software

### Coding Instructor

#### Geek Express

Jun 2021 – Present

Beirut, Lebanon

- Training students from age 8 to 18 on Python, Scratch, MIT App Inventor, Micro:bit, VEX VR, LearnToMod and code.org

## EDUCATION

### B.E. in Electrical Engineering & Minor in Computer Science

#### Lebanese American University

Sep 2019 – Present

Byblos, Lebanon

- Merit and LIFE scholarships
- Honors Program student
- Dean's Distinguished list of the School of Engineering
- CGPA: 4.0

### Lebanese Baccalaureate - General Sciences

#### Collège Saint Joseph des Filles de la Charité

Jun 2019

Zouk Mikael, Lebanon

- Official exam grade: 18.246/20

## COURSEWORK

Simulation of Electronic Circuits Control Systems

Communication Systems Electronics

Signals and Systems Microprocessors

OOP Logic Design Electromagnetism

## PROJECTS

### Electronic Circuit Simulator

Generates the Modified Nodal Analysis matrices and performs DC, frequency and transient analyses using numerical methods. Developed on MATLAB.

### Printer PID Controller and Compensator

Design & tuning of a PID controller and a compensator for a printer on MATLAB and Simulink.

### Song Player

Song player using assembly on freescale MCU board.

### USD to LBP Converter

Currency converter having 3 conversion rates and implemented on Altera Quartus.

### 8-bit ALU

ALU and testbench simulation using VHDL.

## SKILLS

MATLAB Simulink Simscape Java LTSpice

AutoCAD EAGLE SOLIDWORKS Soldering

Python Microsoft Office Lab Equipment Use

Altera Quartus Assembly VHDL Arduino

ModelSim

Work Ethic Problem Solving Time Management

Teamwork Leadership Communication

Agility Learning Creativity Responsibility

## LANGUAGES

Arabic



English



French



German



References available upon request