# Rayan Ayache
## Software Engineer

✉ rayan.elayache@lau.edu  📱 +96176141583  📍 Jbeil, Lebanon  in linkedin.com/in/rayan-el-ayache-ba1639192

## EDUCATION

**BE In Computer Engineering**
Lebanese American University

*10/2015 – 05/2020*
*Byblos, Lebanon*

*Courses*
- Database Systems
- Embedded Systems
- VLSI Design
- Android Development
- Networks and Security
- Intelligent Algorithms

## WORK EXPERIENCE

**IT and Database Development**
SGBL Insurance

*06/2019 – 09/2019*
*Jdeideh, Lebanon*

*Insurance Company*

*Achievements/Tasks*
- IT and technical support for all employees.
- Providing network support and maintenance.
- Daily server monitoring and backup.
- Developing new forms and user interfaces using ORACLE software.

*Contact: Ghassan Haddad, IT manager – ghassan.haddad@sogecap.lb*

**Laboratory Assistant/IT**
Lebanese American University

*10/2015 – Present*
*Byblos, Lebanon*

*Working at the Electrical & Computer Labs of the University.*

*Achievements/Tasks*
- Providing network support and maintenance.
- Configuring switches and networks ports.
- Troubleshooting and repairing computers and electronic devices.

*Contact: Charbel Kadi – charbel.kadi@lau.edu.lb*

## PROJECTS

Intelligent Vacuum Cleaner Simulation (09/2019 – 11/2019)
- Designed and implemented an intelligent agent that simulates a smart automatic vacuum cleaner.
- Multiple algorithms to simulate different environments (Fully observable, partially observable, know dust location...)

Embedded Systems Design (09/2018 – 12/2018)
- Designed and Implemented an automated robot that uses computer vision to detect colored balloons and pop them.
- System consists of PIC18 Microprocessor, a RaspberryPI 3, and a Rover5.0 robot chassis.

Automated Bartending Machine (10/2019 – 05/2020)
- Designed and implemented a machine that allows the user to order an alcoholic beverage using a mobile app or a web-app.
- The machine will mix and serve the customized drink to the customer.
- System consists of PIC18 Microprocessor, a RaspberryPI 3, a touch screen and some sensors.

## TECHNICAL SKILLS

| | | | |
|---|---|---|---|
| **Programming Languages** | Java, C#, VHDL, Assembly | **Software & Frameworks** | Android Studio, Unity, MS Office, Scene Builder |
| **Simulators** | Altera Quartus, PSPICE, ModelSim, Arena Simulation | **Databases** | MySQL, Oracle Forms Builder, PL/SQL Developer |
| **Web Development** | JavaScript, PHP, HTML, CSS | **Operating Systems** | Windows, Linux, Android |

## MEMBERSHIPS AND ACTIVITIES

IEEE Young Professionals (09/2016 – Present)
LAU Robotics Club Member (09/2017 – Present)

LAU AI Club Member (09/2017 – Present)

## LANGUAGES

Arabic
*Native or Bilingual Proficiency*

English
*Full Professional Proficiency*

French
*Professional Working Proficiency*