

# AYA SHARANEK

Jebjannine, West Bekaa, Lebanon

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## PROFESSIONAL PROFILE

Computer and communications engineer with expertise in engineering management, seeking a challenging role in a prestigious engineering company to apply expertise and contribute to the company's success

## EDUCATION

**American University of Beirut, Lebanon** 2022 - 2024

**Masters in Engineering Management**, Concentration in financial and industrial engineering

- **GPA:** 3.62/4
- **Relevant coursework:** Fundamentals of Data Science, Supply Chain Design & Management, Stochastic Models & Applications, Deterministic Optimization Models, financial accounting, financial engineering and derivatives, linear programming, fixed income securities

**Rafik Hariri University - RHU, Lebanon** 2018 - 2022

**Bachelor in Computer and Communications Engineering and Minor in Mathematics**, Concentration in Communication Engineering

- **GPA:** 90.01/100 (Overall), 90.78/100 (Major) with High Distinction
- **Relevant coursework:** Mobile Communications, Satellite Communications, Wireless Communications, Machine Learning and Data Mining, Antennas and Propagation, Networking, Networking Labs, Software Engineering, Database Management Systems, Internet Engineering and Web Programming

### Academic Projects:

- **Thesis - Spring 2024**  
Continuous Review Inventory Model with a Partial Delay in Payment
- **Fundamental of Data Science** – Summer 2023
- **Final Year Project- Spring 2022**  
Optimization of antenna using one of the artificial intelligence techniques and applying it on antennas that will be mounted on base stations and operating at 5G.
- **Artificial Intelligence - Fall 2021**
- **Web Programming - Spring 2021**
- **Database Management Systems - Spring 2020**

**Lebanese Baccalaureate in Life Science** 2017-2018

- 15.11/20 with Distinction

## PROFESSIONAL EXPERIENCE

**Audit Intern, KPMG** 2025- Present

- Performing call overs on financial statement reports
- Performing planning analytics before auditing

**Software Engineer, SAUGO360** 2024- 2025

- Working on a Cisco project
- Integrating AI and Large Language Models (LLMs) into software solutions, enhancing natural language processing capabilities.
- Developing and maintaining full-stack applications, including both backend and frontend components

#### **Teaching Assistant, AUB**

**2022- 2024**

- Completing duties assigned by the professor in: stochastic models course, engineering economy course, discrete simulation course
- Communicating with the students and helping them

#### **Training at ICC group at the CNS Department, Beirut, Lebanon 2022**

- Learning new networking concepts like IPv4, IPv6 routing, and security fundamentals
- Using Packet Tracer to apply the networking concepts

#### **Vice President of the IEEE RHU Student Branch, RHU**

**2021- 2022**

- Scheduling and organizing workshops, seminars and trips to the students related to their major
- Improving student's skills and developing their experience

#### **Professors Assistant, RHU**

**2019-2021**

- Helping students in the Communication Lab to improve their skills
- Providing extra sessions in the Electric Circuits course to help students

#### **Social Media Manager of the IEEE, RHU 2021**

**2020-**

- Finding new and better ways to make IEEE pages (Facebook, Instagram) more active and beneficial

### **PUBLICATIONS**

- A. Hassan, A. Sharanek, R. Hamzeh, D. Serhal and R. Zantout, "Optimization of 5G Antenna Using Machine Learning," 2025 5th IEEE Middle East and North Africa Communications Conference (MENACOMM), Byblos, Lebanon, 2025, pp. 1-6, doi: 10.1109/MENACOMM62946.2025.10910957.

### **KEY SKILLS**

<b>TECHNICAL SKILLS</b>	<b>SOFT SKILLS</b>
<ul style="list-style-type: none"> <li>• Good knowledge in using Python Language</li> <li>• Very good knowledge in javascript and js</li> <li>• Wide Knowledge in Microsoft Office Programs</li> <li>• Excellent use of Microsoft Visual Studio software(C/C++)</li> <li>• Good knowledge in using MATLAB engineering software</li> <li>• Good Knowledge in developing desktop applications</li> </ul>	<ul style="list-style-type: none"> <li>• Strong ability in working individually and a team</li> <li>• Good ability in communicating professionally verbally and in written format using both English and Arabic Languages</li> <li>• Strong critical thinking and problem-solving skills</li> <li>• Certificate of Completion an online National Cascade Training in Debate, Public Speaking, Leadership, and Policy with the Young Mediterranean Voices</li> </ul>

- Very good information in HTML to develop web pages
- Good use of CST Microwave simulation

#### **ACTIVITIES**

- |   |                  |
|---|------------------|
| • RHU President's and Dean's Honour List  | <b>2018-2022</b> |
| • Member of IEEE RHU Student Branch   | <b>2019-2022</b> |
| • Member of Artificial Intelligence Club at RHU   | <b>2020-2022</b> |
| • Certificate of Completion with merit from CISCO<br>CCNA Routing and Switching: Introduction to Networks, Routing and Switching Essentials, Scaling Networks and Connecting Networks | <b>2020-2021</b> |

#### **VOLUNTEER**

- |   |             |
|---|-------------|
| • Participating as a volunteer at the RHU open house        | <b>2018</b> |
| • Working in a team in the FLLL robotics competition at AUB | <b>2016</b> |

#### **LANGUAGES**

Fluent in Arabic and English