

Omar Rayyan

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Education

New York University Abu Dhabi

August 2021 - Present

Electrical Engineering and Computer Science (EECS)

GPA: 4.0/4.0

Experience

Google

July 2023 - Present

STEP Engineering Intern

- Developed an internal evaluation tool functionality for assessing changes in resource configuration controls before submission. The tool is now in use and has been utilized by multiple engineers at Google.
- Worked as a member of the Infrastructure and Storage Team, which is responsible for managing resources and tasks across Google's global distributed systems.

Center for AI and Robotics

Sept 2022 - July 2023

Robotics Engineering Research Assistant

- First authored a [paper](#) on RCM-constrained manipulator trajectory tracking in MIS that got accepted and published in the International Conference on Advanced Robotics (ICAR) 2023.
- Developing a ROS Algorithm for Precise Control of the KUKA iiwa-14 R820 Robot with Differential Kinematics while adhering to constraints.

ProgressSoft Corporation

July - Sept 2021 & July - Sept 2022

Software Engineering Intern

- Worked on and fully developed a tool to be used for internal testing by banks all around the Middle East using Spring Java Framework
- Was involved in programming, documenting and testing applications, frameworks, and software components of Progresssoft ECC (Electronic Cheque Clearing) project using multiple Java EE technologies.

Applied Interactive Multimedia Lab

February 2022 - July 2022

Engineering Research Assistant at AIM Lab

- Worked on the development of serious tasks for [KATIB](#), a handwriting assisting platform that provides contact-less kinesthetic feedback by utilizing magnetic forces. It helps post-stroke patients regain writing skills.

Projects

[View More](#)

Lebsi

[iOS App](#)

An app that enables people to set up online clothing stores. Reached #21 on App Store Top Charts.

A Fine Day

[Github Repo](#)

A gamified version of stroke rehabilitation allowing patients to regain their limbs functionality in an engaging environment by integrating VR (Oculus Rift) and hand-tracking (Ultraleap) devices.

Qatra

[iOS App](#)

A platform connecting those in urgent need of blood units in Jordan with potential blood donors. Was featured on [Jordan News](#).

Past Code

[App Store](#)

An app that helps international students find supporting exam papers using their phone camera using Apple's vision framework. The app was used to scan over 500,000 papers from 64 different countries.

Achievements

International Conference on Advanced Robotics (ICAR) 2023 December 2023

- Published a paper as a first author during my time at the Center of AI and Robotics of NYUAD.

IEEE Xtreme Coding Competition October 2023

- 3rd on the United Arab Emirates - Problem Solving

NYUAD Scholarship August 2021 - May 2025

- \$200,000 scholarship to complete my undergraduate studies at New York University Abu Dhabi

Cambridge Assessment International Education June 2020

- Top in Country in Physics International A-Level and Across 4 International A-Levels
- Top in Region Across 7 International GCSEs

Skills

Coding Languages

C++ | Python | JavaScript | Go | Java | Swift | JSP | Servlet | Angular | Spring | MATLAB | React | FPGA | VHDL