

# AYOOB AL-DELAIMY

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## EDUCATION

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**University of California, San Diego**

June 2026

*B.S. Computer Engineering*

**Relevant Coursework:** Design and Analysis of Algorithms / Data Structures (**C++**) / Computer Architecture (**C/Assembly**) / Object-Oriented Programming (**Java**)

## EXPERIENCE

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**Embedded Systems Intern - UC San Diego**

Jan 2021 – Jan 2022

- Designed and programmed a robotic arm for a Nanoengineering research group to automate the laying of fragile Perovskite (PSK) solar films, improving efficiency and precision in PSK research.
- Independently built the robotic arm, managing hardware design and software programming, overcoming challenges such as sensor recalibration and film fragility.
- Created an innovative non-sensor-based solution using mathematical equations for precise movement in automated and manual modes, significantly improving performance.
- Collaborated with the team to iteratively refine the robotic arm, delivering a fully functional solution featured in a research paper for its efficiency and precision enhancements.

## PROJECTS

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### DALL·E Image Generation & Sharing Platform

- Built a full-stack web application using the **MERN** stack (**MongoDB, Express, React, Node.js**) to generate and share AI-generated images.
- Integrated OpenAI's API (among others) to allow users to input a script, generate images, and share them with the community, with the ability to search for shared images.

## SKILLS

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Python, JavaScript/TypeScript, React/React Native, Node.js, Express, Git, C++, C, Arduino, Assembly