**Walid Al-Muhtaseb**

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**education**

**University of Southern California** Los Angeles, CA

**Computer Engineering and Computer Science** August 2024-Present

**Chaffey College** Rancho Cucamonga, CA

**Computer Science** September 2021-May 2024

* Associate’s degree in computer science, Mathematics and Physics

**skills**

* Technical: Altium, AutoCAD, C++, C, Python, PyTorch, OpenCV Computer Vision, Linux, HTML, CSS, JavaScript, SQL, FPGA Design, Verilog, Arduino, Raspberry Pi, Soldering

**academic projects**

**USC RPL (Rocket Propulsion Lab)** Los Angeles, CA

**Avionic team Member** August 2024-Present

* Designing and integrating multi-board systems into existing unit to enhance speed and efficiency while reducing size and power consumption by 13.5%
* Research and development of a live feed camera-stream that will send continuous packets captured from the rocket throughout its whole flight time to a ground base

**Aglet** Amman, Jordan

**Full-Stack Web Developer** February 2020-April 2021

* Created a functional online shoe renting website called Aglet from scratch, developing both front and back end, having 50 different shoes in 6 different size each

**internship experience**

**Hype**

**Front End Developer** May 2023-September 2023

* Developed a private team collaboration app for sharing reminders, to-do lists, and communication, connecting 50 team members to a centralized server
* Added the ability for users to share progress reports, view, add, and update tasks of other team members, and send direct messages to any other team member

**General Computer Electronics (GCE)** Amman, Jordan

**Electrical Engineering Intern** May 2022-August 2022

* Developed software to track 1,000 vehicles, optimizing speed and fuel efficiency monitoring with 20% better insights
* Designed a durable PCB layout for 10 car types, tolerating 400Hz vibrations and -8°C to 60°C temperatures
* Maintained the code responsible for tracking the cars and increased accuracy by 10%

**leadership & activities**

**Physics Club** Rancho Cucamonga, CA

**Treasurer** August 2023-May 2024

* Spearheaded a team in designing and creating a speed trap detecting when objects goes faster than a certain adjustable speed threshold with +-3m/s accuracy
* Collaborated with a team of 16 to build a rail gun that was able to fire small projectiles at around 50 m/s with 80% accuracy

**RoboCup Competition** Austria

**Co-Leader** July 2018-July 2020

* Led development of robot design ranking 37th out of 157 using Arduino and 3D-printed parts
* Led a team of 4 in the development of the line tracking protocol and ball collection