RASHID ABDER RAHIM

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SUMMARY

Bilingual (English/Spanish) Computer Engineering sophomore seeking a computing-related internship where I can use my skills in programming and prototyping to become a positive contributor to your organization's growth and success.

EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO
Bachelor of Science in Computer Engineering   September 2022 – June 2026
Clubs and organizations: Rocket Propulsion Laboratory (Avionics, 2023-Present), Yonder Dynamics (Electrical, 2022–2023).
- GPA: 3.98/4.00
- Provost Honors for all quarters enrolled.
- Relevant coursework: Introduction to Analog Design, Basic Data Structures and Object-Oriented Design, Mathematics for Algorithms and System Analysis, Multivariable Calculus and Linear Algebra

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WORK EXPERIENCE

NISHIMURA DESIGN, Tokyo, Japan   **July/2023-August/2023**
Product Design Intern
- Conducted thorough user experience (UX) research to identify user needs for an RFID checklist prototype.
- Collaborated effectively within a cross-functional team to bring creative ideas to the prototyping stage.
- Utilized low fidelity sketches and wireframes to visualize the prototype's final design prior to the prototyping stage.
- Assembled a proof-of-concept electronic prototype using standard electrical components and programming in Arduino.
- Designed the prototype's enclosure with SOLIDWORKS and Adobe Illustrator. Used laser cutting and 3D printing for manufacturing the enclosure.

PROJECTS

- **RFID Checklist (associated with NISHIMURA DESIGN)**
  o Arduino prototype that incorporates a MFRC522 RFID reader and an ILI9341 touchscreen to allow users to scan NFC tags attached to their objects. Implemented a state machine design to manage the different states and transitions of the device (main states include scanning tags, deleting tags and checklist state).

- **Smart Water Lid (associated with UCSD's ECE 196)**
  o Collaborated with two other students in designing and manufacturing a prototype for a bottle lid that can track water consumption. Key components included the Seeed Studio XIAO nRF52840 and a VL53L4CD Time-of-Flight sensor. Debugged the source code and troubleshot the electronic components of the lid during the prototyping stage.

- **FM Radio and stereo amplifier (personal project)**
  o Crude FM radio receiver which incorporates an LC resonator (variable capacitor to adjust resonant frequency), an antenna, a stereo amplifier with two LM386 ICs and a pair of woofers. Designed the schematics and PCB of the amplifier with Altium Designer.

SKILLS & ACTIVITIES

- Programming languages: Java, Python (familiar with Pandas and Matplotlib), C, MATLAB.
- CAD: SOLIDWORKS, Altium Designer, KiCad.
- Circuit analysis and electronics prototyping with Arduino.
- Comfortable with electrical testing equipment (multimeters, oscilloscopes, function generators, DC power supplies).

- Knowledge of HTML and CSS for basic web development.
- Familiar with Premiere Pro for video editing.
- Native fluency in Spanish.
- Hobbies: BBQ Cooking, Boxing.