# Ryandeep Shelopal

510-766-8997 | rdshelopal@gmail.com | www.linkedin.com/in/ryan-shelopal/ | www.github.com/rdshelopal | Fremont, CA

## Education

**University of California San Diego** — La Jolla, CA
*Computer Engineering (B.S)* — *Aug. 2022 – June 2025*

**Ohlone College** — Fremont, CA
*Mathematics (A.S)* — *Aug. 2018 – May 2022*

## Technical Skills

- C/C++, Java, Arduino, Vim, GNU nano, Git, bash, Junit
- HTML, CSS, JavaScript, Jest, Puppeteer, Markdown
- MATLAB, LTspice, PSpice, Oscilloscope, Function Generator, Multimeter
- SystemVerilog, ModelSim, QuartusPrime
- CMW500, DASY6, cDASY6.0

## Experience

**Wireless Product Testing Intern** — May 2019 – June 2019
*Underwriter's Laboratories Inc.* — *Fremont, CA*

- Operated DASY (Dosimetric Assessment System) robots and CMW 500 call boxes to record SAR (radio frequency) values of wireless devices for compliance with FCC/IC standards.
- Utilized cDASY6.0 software to model and document recorded SAR measurement for each cellular technology (LTE, GSM, etc).
- Worked closely with senior engineers in a dynamic, fast-paced, customer-focused environment to ensure proper evaluation of the device.

## Projects

**Developer Journal** | *HTML, CSS, JavaScript* — June 2024

- Collaborated with a team of 9 developers over a 4-week period to develop a developer journal web application.
- Took primary responsibility for designing and implementing responsive and visually appealing user interfaces using CSS and HTML.
- Utilized JavaScript for adding interactive elements, enhancing user experience, and managing storage solutions.
- Developed and executed unit tests using Jest, and utilized Puppeteer for end-to-end testing to ensure code quality, reliability, and functionality across different scenarios.
- Followed Agile principles, participating in daily stand-ups, sprint planning, and retrospectives to ensure iterative and incremental development.
- Integrated continuous integration and continuous deployment (CI/CD) pipelines to automate testing and deployment, enhancing the development workflow.
- Delivered a video presentation of the completed project at the end of the 4-week development period.

**Alarmed Door** | *Arduino, C, Arduino IDE, Breadboarding* — May 2022

- Collaborated with a team of 4 to construct a door lock alarm system prototype that would deter any wrongdoers from providing a fake fingerprint via mold, within a budget of $200.
- Utilized an Arduino UNO R3, LM335Z Temperature Sensor, Biometric Fingerprint Scanner, 12V Solenoid Lock, Relay, Breadboard, Resistors, LEDs, and a Buzzer. Total Expenditure: $85.83
- Programmed system in C-based programming language by utilizing the Biometric Scanner library provided by Arduino.
- Verified calculations using Ohm's Law.
- Presented project and gave live demonstration at 2022 Ohlone College Engineering Innovation Showcase.

**Sensor Light** | *Arduino, C, Arduino IDE* — June 2021

- Constructed a motion sensor light using Arduino Uno R3 microcontroller, an ultrasonic sensor, and breadboarding by utilizing resistors and LEDs.
- Utilized boolean logic and truth tables for the functionality of the light.
- Programmed system in Arduino's C-based programming language.
- Presented project and gave live demonstration.