

Rodrigo Becerril Ferreyra

1450 E 75th St
Los Angeles, CA 90001

(323) 216-5048

<https://robefe.xyz>

becerrilferreyra.rodrigo@gmail.com

<https://github.com/>

[RodrigoBecerrilFerreyra](#)

Skills

Computer Languages:

- C and Embedded C
- C++
- Java
- JavaScript
- Python
- Verilog

Natural Languages:

- English
- Spanish

Software:

- MATLAB
- Xilinx Vivado
- Keil μ Vision 5
- Amazon Web Services
- UNIX/Linux environment

Topics:

- Digital Logic Design and Verification
- Data Structures and Discrete Mathematics
- Digital Signal Processing (DSP)

Education

Bachelor of Science Degree, Computer Engineering

California State University, Long Beach

August 2018 – May 2022

Cumulative GPA: 3.805, President's Honor List

Experience

Instructional Student Assistant

Aug 2021 – Dec 2021

California State University, Long Beach

- Managerial role: in charge of managing 108 students, their work, and their grades throughout the semester.
 - Tasked with providing a prompt response to students' work and grading all students' projects.
 - Reference: katherine.varela@csulb.edu
-

Projects

Aftermarket Car Security System

Senior group project. The Aftermarket Car Security System is a device that sits on top of the user's car and detects possible incidents happening around or to the car. It detects door dings, catalytic converters being cut, the car being propped up by a jack, and more. Within seconds, the user is sent an SMS alert with a link to the project's website, where the user can see sensor data update in real time and view real-time live streams of the device's two cameras. Utilizes ReactJS, NodeJS, NGINX (+RTMP module), AWS EC2, AWS S3, MongoDB, and Python.

Completed in a group of four people over a period of one year (one semester planning, one semester execution). Winner of the "Highest Monetization Potential" award at a College-wide contest with over 100 students attending. Project available here:

<https://github.com/ImColtonCurtis/CECS490>. Article link:

<https://www.csulb.edu/college-of-engineering/article/2022-cecs-senior-expo>.

Simple Machine Learning Convolutional Neural Network

A small final project for a machine learning class. Implemented a customized convolutional neural network from scratch (not based on any existing CNN) using the Tensorflow and Keras libraries for Python. Obtained 60.97% testing accuracy. Available on GitHub.