

# Oscar Cardenas

4301 Broadway St, San Antonio, TX 78209 • +523316048758 • oscarfish100@gmail.com

## Education

---

**University of the Incarnate Word, San Antonio TX** GPA: 3.2

**Expected Graduation Date: May 2022**

Major: Mechatronics Engineering; Minor: Computer Information Systems (CIS)

## Experience

---

**University of the Incarnate Word, San Antonio TX** (Programming Skills)

Spring 2020 – Current

- Proficient in C#, C++, HTML, CSS, MATLAB, and Simulink.
- Skilled in the development of Object – Oriented Software and game development using C++ and C#.
- Experienced in the use of data as part of software development.

**University of the Incarnate Word, San Antonio TX** (Image Processing Projects)

Spring 2021

- Developed an algorithm that detects objects in pictures with future implementation in machine learning.
- Analyzed various raw images pertaining NASA's mars rover Perseverance mission.
- Utilized various techniques to generate high quality images taken from raw data.

**University of the Incarnate Word, San Antonio TX** (Machine Learning)

Fall 2021

- Knowledgeable in the theory and implementation of linear regression analysis using Ridge, Lasso, and Elastic Net
- Competent in the application of ML techniques over large data sets using MATLAB.

## Other Experience/ Involvement

---

**Work experience at University of the Incarnate Word, San Antonio TX**

Spring 2019-Spring 2021

- Senior Lifeguard with over 2 years of experience; Prevented more than 10 casualties.
- Orientation leader who helped in the guidance of over 200 new students throughout their first days in college.
- Technician at the Wellness Center aiding against the spread of Covid-19 as well as equipment maintenance.

**Student Athlete at University of the Incarnate Word, San Antonio TX**

Fall 2018-Current

- Represented the swim team throughout the entirety of my undergrad experience.
- Pivotal piece in the redevelopment of the men's distance swim team.
- Vast experience at an international level.

## Honors & Awards

---

- Granted multiple swimming awards, both national and collegiate, along with 22+ years of experience in the sport.
- Awarded with both, swimming and academic scholarships.
- Part of the Dean's Honor List throughout multiple semesters.

## Interests & Soft-Skills

---

- I like to learn new skills that go beyond my area of expertise.
- Website Development
- Huge sports and swimming enthusiast

- Designed various floor plans using both architectural and engineering approaches.
- Prototyped a desk lamp including the use of different materials.
- Developed a full DC Brushed Motor according to basic specifications.