

# Sergio Alanis

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**Objective:** To obtain an internship in an environment in which I can apply my knowledge in electrical engineering and computer science and get experience with in the industry environment.

## Education:

- **The University of Texas Rio Grande Valley Edinburg, TX**  
Bachelor Science in Electrical Engineering  
Minor in Computer Science  
GPA: 3.54 Anticipated Graduation Date: December 2017
- **Centro de Bachillerato Tecnológico Industrial y de Servicios CBTIS #7**  
Mechatronics Technician Degree

## Experience:

**Math Tutor, Class Assistant,** JumpStart Program July 2015, June 2016  
University of Texas Rio Grande Valley, Edinburg, Texas.

- Assisting Professors with in the class.
- Help students with study strategies and techniques to learn the topics seen during class.

**Lead Tutor,** U-PREP Summer 2015  
University of Texas Rio Grande Valley, Edinburg, Texas. Summer 2016

- Tutoring U-PREP students in Math and Physics classes.
- Explain to students the subjects that they couldn't understand in class lectures.

**Translator and Assistant,** Aeropuerto. Summer 2016  
Reynosa, Tamaulipas, México.

- Assisted in the installation of a new communication device used by control tower.

**Assistant,** Caminos y Puentes Federales (CAPUFE) September 2012- June 2013  
Reynosa, Tamaulipas, Mexico.

- Assisted in computer software installation and hard drive cleaning.

## Leadership:

**Engineering Honor Society (TAO BETA PI),** *Historian* January 2016 - Present

**The National Society of Collegiate Scholars (NSCS),** *Member* August 2015 - Present

**Capilla de Nuestra Señora de la Piedad,** *Catechist Coordinator* July 2014 - June 2015

**Movimiento de Jornadas de Vida Cristiana,** *Speaker for Young Adults* January 2013 - July 2014

## Skills:

Fluent in Spanish and English language (Writing, Reading, Speaking).

## IT Skills:

- ADOBE PHOTOSHOP
- ADOBE ILLUSTRATOR
- MICROSOFT OFFICE PLC PROGRAMING
- C++
- MATLAB
- ASSEMBLY LANGUAGE
- ARDUINO
- VHDL
- VERILOG

## Projects:

- **Robotic Arm:** Robotic arm with two degrees of freedom capable of grabbing a screw from a designated area to another one. Built using the PIC 16F84A, Step Motors, acrylic plates and a handmade electromagnet.
- **Elevator:** Elevator with two switches that determined whether go up or down and had limit switches that prevented the elevator to go beyond its limits. Built using PLC, Motors, Limit Switch and push buttons.
- **Rotating Light Display:** Rotating light display which changed its velocity and direction. Built using the Programmable Array Logic Device GAL22V10.
- Implementation of Diodes, Transistors and Logic gates