

EMILIANO RODRIGUEZ

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PROFILE

Dedicated student, research assistant and effective team member with experience in customer service, professional assistance, teaching and working with robotics (K-15th).

EDUCATION

UNIVERSITY OF TEXAS AT SAN ANTONIO [FALL 2016-(*anticipated*) FALL 2018] San Antonio, TX

- Major: Mechanical Engineering
- Minor: Computer Science/Mathematics
- GPA: 3.52

TEXAS STATE UNIVERSITY [SUMMER 2013-SUMMER 2016]

San Marcos, TX

SEGUIN HIGH SCHOOL [AUGUST 2009-MAY 2013]

Seguin, TX

RESEARCH EXPERIENCE

UNIVERSITY OF TEXAS AT SAN ANTONIO [SPRING 2018]

ADVISOR: PRANAV A. BHOUNSULE

- **ROBOTICS AND MOTION LABORATORY** – *Research Assistant*
 - Simulation of Darwin-OP using the Robot Operating System (ROS) and gazebo for graphical interface.
 - Developing, improving and implementing algorithms.

WORK EXPERIENCE

KIDTECH ROBOTICS [JULY 2016-AUGUST 2016] San Marcos, TX

Instructor

- The focus of our program is to teach student robotics including logic based function block programming and basic mechanical engineering concepts, through building working robots of various designs and functions.

COMPACT AUTO SALES [JANUARY 2013-JUNE 2014] Seguin, TX

Sales Associate

- Car sales man, customer service, auction representative; Buying/Driving cars to/from Auctions. Maintaining cars.

GRIFFITH FORD SEGUIN [JUNE 2014-AUGUST 2014] Seguin, TX

Mechanic Assistant

- Assisted professional mechanics in work environment. Maintained clean two Ford Mechanic shops at the same time. Learn some mechanic processes used on cars.

EXTRA CURRICULAR ACTIVITIES

- **ADVANCED ROBOTICS** [senior(UTSA)] – Arduino/Raspberry Pi Instructor. Teaching university students the basics of working with micro controllers (LCD, motors, LED's, sensors, etc..).
- **AERONAUTICS & ROCKETRY CLUB** [junior(UTSA)] – Vice President (2017), Avionics/Recovery lead. Engineering rockets, working with body design, force analysis, hybrid motors. Aiming to launch a high power rockets. Sub projects; wireless launch controller, racing drone construction.
- **FSAE** [College junior] – Formula Society of Automotive Engineers. Student team constructing a small formula-style race car. Working on design, Engine, Electrical, active Aerodynamics and research.
- **PYTHON CLUB** [Junior] – Texas State University club teaching python based language.

INTERESTS AND SKILLS

Fluent in English | Spanish / Programming in C|C++|Python| Java| HTML| CSS / Knowledge on Linux systems / ROS