

# Michael I. Ibanez

## CONTACT



mike.ibanez97@gmail.com



(956) 789-0390



linkedin.com/in/mike-ibanez

## SKILLS

- Experience with 3D CAD Software including SOLIDWORKS, Autodesk Fusion 360, and Autodesk AutoCAD
- Knowledge of MATLAB
- Familiar with LabVIEW
- Knowledge of C, C++, and Python
- Highly Proficient on MS Word, Excel, and PowerPoint
- Strong analytical and problem-solving skills
- Leadership and Communication
- Fluent Spanish Speaker
- US Citizen

## CERTIFICATES

- English Teaching Certification - UANL
- Substitute Teaching License – UTRGV

## ORGANIZATIONS

- The American Institute of Aeronautics and Astronautics (AIAA) – National Member

## EDUCATION

### B.S. in Aerospace Engineering

University of Texas at Arlington

Anticipated May 2020

GPA 3.74

## PROJECTS

### City of Arlington Department of Park and Recreation

The City of Arlington

October 2018 – December 2018

- Coordinated a group of 8 engineering students.
- Oversaw the inspection of over 50 assets across 12 parks property of the City of Arlington.
- Verified the findings and grade the assets' state quantitatively.

### CNC Plotter

The University of Texas at Arlington

March 2018 – April 2018

- Designed and created mechanical parts for a CNC Plotter on SOLIDWORKS.
- Programmed a control system within the Arduino IDE which is based off C++.

### Gravity Powered Car

The University of Texas at Arlington

October 2017 – December 2017

- Designed and assembled a vehicle as a team utilizing SOLIDWORKS and other assembly methods.
- Placed 1<sup>st</sup> among 13 groups by harvesting the potential energy of a soda can at a height of 20 inches to displace the vehicle 95 inches forward.

### UTRGV Rocket Launchers

The University of Texas Rio Grande Valley

August 2016 – July 2017

- Participated on a team of 15 students to design and manufacture a 7-foot tall rocket which placed 7th out of 44 international competitors and 2nd among American teams at the Intercollegiate Rocket Engineering Competition (IREC).
- Engineered an Arduino based system that measured and stored flight information including velocity, acceleration, and atmospheric pressure.

## WORK EXPERIENCE

### Resident Assistant

University of Texas at Arlington

August 2018 – Present

- Aid a group of 40 students to adapt to life on campus.
- Enforce policies across a residential building with approximately 500 residents.
- Coordinate events for 500 students on a monthly basis.
- Facilitate communication in between conflicting parties.

### Student Research Assistant

University of Texas at Arlington

August 2017 – July 2018

- Aided in the experimental phase of a Ph.D. project regarding the reinforcement of Laterally Damaged Pre-Stressed Girders with Carbon Fiber Reinforced Polymer (CFRP) Laminates.
- Conducted measurements utilizing LabVIEW which gathered data from strain transducers.

### Calculus Teaching Assistant

University of Texas – Rio Grande Valley

August 2016 – December 2016

- Tutored a group of approximately 100 students in Calculus I and Calculus II.
- Explained complex abstract concepts to a wide range of individuals with different levels of technical background.
- Graded approximately 100 papers, quizzes, or tests on a weekly basis ensuring that the grading system applied was uniform and fair.