

John Gutierrez – Mechanical Engineer

(830) 446 – 0810 gutierrezjohn2000@gmail.com 8211 Triple Crown, Fair Oaks Ranch TX 78015

Statement of Intent:

With a focus in mechanical engineering and a passion for computer science, I am seeking to build on my engineering experience in a position where I can learn and make a difference.

Work Experience:

Texas A&M Engineering Systems Lab (June 2020 – Present)

- Learned to contribute to an A&M HVAC data analysis site.
- Developed new data migrator from client building systems to our database.
- Programmed a monitor to watch incoming data for gaps and termination.
- Stack includes *SQL*, *C#*, *ts* with *knockout.js*, and *html*

Patriot Enterprises (August 2019 – Dec 2019)

- Applied intermediate knowledge of python to help transition a VA benefits database away from Excel.
- Learned to use the Pandas data package and improved fluency in python

Whataburger (June 2016 - August 2018)

Boerne Soccer Club Referee (2012 - 2015)

Education:

Texas A&M University - College Station, Texas

- '22 Mechanical Engineering
- Minor in Computer Science
- Current GPA - 3.4

Boerne Samuel V. Champion High School – Boerne, Texas

- '18 *magna cum laude*
- 25 out of 368 students in class
- GPA - 106.0682
- ACT - 33
- SAT - 1440

Current Studies and Projects:

- Mechanics, Programming, SolidWorks CAD Modeling
- [*beam-analysis.py*](#) python package for analyzing beams under static loading
- [*topography.py*](#) python package for interpolating 3D maps of terrain from topographic data
- [*tournament bracket maker*](#) a fun website hosted online with GitHub pages to make tournament brackets

Awards and Achievements:

- National Hispanic Scholar - awarded to top 2.5% of Hispanic PSAT students in the nation
- National Honor Society
- AP Scholar with Distinction - 3.5 or better average on all AP exams taken
- 11 AP and 5 Dual Credit classes

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Leadership Roles and Extracurricular Activities:

- Texas Water Safari Finisher “World’s Toughest Canoe Race” – 262mi
- Aggie Coding Club
- Student Council
- HS Tennis Team
- Boerne Buddies - special needs org.
- Young Republicans VP

2019, 2021

F’19 – present

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Hobbies: soccer, ultimate frisbee, programming, longboarding, unicycling, hiking, cooking, board games