

EDUCATION

Texas A&M University College Station, TX

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING, GPA: 3.2/4.0

May 2020

EXPERIENCE

Turbomachinery Lab

College Station, TX

FLAME SPEED GROUP STUDENT TECHNICIAN/RESEARCHER

Feb. 2020 - PRESENT

Provided aid to PhD students with experiments and conducted supplemental research and analyses in Flame Speed Group.

Shell Eco Marathon Competition

College Station, TX

SENIOR DESIGN CAPSTONE PROJECT

Aug. 2019 - May 2020

Designed, fabricated, and tested a fuel-efficient internal combustion car for the 2020 Shell Eco-Marathon competition. Iterated design of aluminum car frame, conducted Finite Element Analyses (FEA) to validate selection of final design, and manufactured the frame through coping and TIG welding of members.

Baker Engineering and Risk Consultants

San Antonio, TX

BLAST GROUP INTERN

Jan. 2019 - Aug. 2019

Supported with designing tests for clients and aided in conducting internal research on explosion phenomena. Performed work involving mud
plugs, vapor cloud explosions, deflagrations, facility siting studies, safety hazard courses, air sampling systems, blast-proof enclosures, and
seat belt pre-tensioners.

Society of Automotive Engineers (SAE)

College Station, TX

STUDENT APPRENTICE

Aug. 2017 - Dec. 2018

• Worked on Texas A&M 2015/16 Formula One cars through Apprenticeship program.

Society of Hispanic Professional Engineers (SHPE)

College Station, TX

WEBSITE COMMITTEE MEMBER

Aug. 2016 - Dec. 2018

- Managed and redesigned the organization's website as part of the website committee.
- Attended the SHPE 2017 National Conference in Kansas City. Networked with scholars from all over the country and attended company workshops on topics such as professionalism and work ethic.

SCHOLARSHIPS & AWARDS _

Bill & Melinda Gates Foundation

Gates Millennium Scholar Aug. 2016-PRESENT

- Full-ride scholarship for both, undergraduate and graduate programs, awarded to only 2% of applicants, 1,000 of 50,000, with the purpose of providing opportunities to minority students with significant financial barriers.
- Networked with Gates Scholars at the National Conference in Los Angeles, California. Attended workshops and participated in discussions
 addressing equal access to educational programs among other issues.

Hispanic Scholarship Fund

HSF Scholar Aug. 2016-PRESENT

• Scholarship awarded to exceptional students of Hispanic heritage who demonstrate leadership and a passion for learning.

Aggies Invent Challenge

2ND PLACE & HONORABLE MENTION WINNER

Sep. 2016 & Oct. 2016

- Competed twice in the Aggies Invent Challenge, a 48 hour competition in which participants work in a diverse team atmosphere on identifying a problem, prototyping a product, creating a business model, a marketing video, and a presentation to be judge by a panel of industry professionals and professors.
- \$250 and Honorable mention winner in "Aggies Invent-Internet of Things" themed Challenge (Oct. 21 2016).
- \$750 and 2nd place winner in "Aggies invent-Bring your Own Idea" themed Challenge (Sep. 18 2016).

Toyota Mobility Challenge

3RD PLACE WINNER Oct. 2016

• Competed in an intensive 7 hr. competition to innovate a more inclusive transportation system (Oct. 22 2016).

ADDITIONAL DATA _

Software Skills Python, C++, Matlab, LabVIEW, SolidWorks, Excel, Word, Powerpoint, Adobe Premier Pro & Photoshop

Fabrication Skills Mill, Lathe, MIG & TIG welding, 3D printing

Other Fluent in Spanish, astronomy & space exploration enthusiast, and fanatic of mountain biking, hiking, and camping