

# Joshua A. Duarte

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## Education

**Texas A&M University**, College Station, Texas  
Bachelor of Science in Mechanical Engineering

Graduation: May 2022  
GPR:3.70/4.0

## Experience

**Northrop Grumman**, Palmdale, California

May 2019 - August 2019

*Technical College Intern, Aerospace Systems, **Top-Secret Clearance***

- Assembled and tested electronic, mechanical, and electromechanical systems to ensure consistency and quality
- Developed 3D models, assemblies, and engineering drawings using CATIA V5 to fabricate solutions
- Facilitated the development of a Subsystem Design and Analysis Lab at the request of sector leadership

**Technology Student Association**, Waxahachie, Texas

August 2014 - May 2018

Computer Aided Design Competition, Fort Worth, Texas

January 2018

*3<sup>rd</sup> in State*

- Created a CAD model using Autodesk Inventor of a given object within a specific time limit
- Produced 3D sketches, determined dimensions, constructed computer models, and assembled the final product

Architectural Design Challenge, Orlando, Florida

June 2017

*Design Lead, 6<sup>th</sup> in the Nation*

- Developed architectural plans to construct a 3D-printed, as well as a computer-generated model of a mobile home using Autodesk AutoCAD and Inventor along with Excel to organize and calculate data using dimensions
- Ensured the model aligned with floorplans and analyzed project specifications to correlate with guidelines

**TAMUhack**, College Station, Texas

January 2019

*Design Lead, Best First Time Hackers, CBRE Challenge Winners*

- Handpicked to attend Texas A&M University 24-hour hackathon challenge
- Lead project management including the designing and building of the working prototype
- Responsible for the delivery of the sales pitch that resulted in a 1<sup>st</sup> place finish within two separate challenges
- Incorporated C coding method to manipulate Qualcomm DragonBoard to align with the project design

## Leadership Experience

**Society of Hispanic Professional Engineers**, College Station, Texas

August 2018 – Present

*Rookie of the year 2018-2019*

Internal Affairs Committee Member

- Organized and planned logistics in weekly meetings for social events across the organization
- Competed and selected as one of three freshmen to attend the 2018 SHPE National Conference in Cleveland, Ohio

Extreme Engineering 24 Hour Challenge

November 2018

*Design Lead for General Motors, 2<sup>nd</sup> in the Nation*

- Chosen to represent General Motors, Corvette, out of 600+ student applicants
- Designed, prototyped, and marketed a solution for smart appliances that could easily integrate into the home
- Developed a 3D model using Autodesk Inventor and managed group in building final prototype

**Texas A&M Men's Club Soccer**, College Station, Texas

August 2018 - Present

Member

- Practice and compete with the team at national competitive level
- Meet with other team members to study course work to increase grade point ratio

NCAA Division One Women's Soccer Practice Player

January 2019 - Present

- Selected to be one of six practice players for Texas A&M Women's soccer team
- Attend practices throughout the week to increase their speed of play for divisional tournaments and games

**ExxonMobil Future Leaders Academy**, Houston, Texas

October 2019

- 1 of 40 students handpicked from across the nation to attend leadership development convention
- Conversated with executive leaders throughout different parts of the ExxonMobil Corporation
- Attended numerous workshops that focused on the development of professional and leadership skills

## Skills

- CATIA V5, Autodesk (Inventor and AutoCAD), SolidWorks, Python, XCode, Bilingual (Spanish/English)