

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: 3.52/4.0

Experience

Boeing, Seattle, Washington

May 2021 - Present

Boeing Test & Evaluation Flight Test Design/Build Intern

- Responsible for the design, prototyping, manufacturing, and installation of foreign object debris shields within 4 777X aircrafts
- Developed numerous parts and assemblies using CATIA V5, Enovia, and IVT for proper tolerance alignment within the aircrafts
- Overseeing the project management for the installation of essential test equipment designed to manipulate the center of gravity and electrical load throughout the aircraft during flight testing

ExxonMobil, Houston, Texas

June 2020 - August 2020

UIS Wells Digital Innovation & Automation Intern

- Enhanced and developed a SharePoint tool that captures and distributes learnings found during the Well construction process
- Met and discussed with numerous Well Engineers to design a seamless user interface using Nintex Forms/Workflows, JavaScript, jQuery, HTML, CSS, along with VBA within Excel
- Constructed a repository that held drilling and onboarding information that benefited current and future ExxonMobil Well Interns

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

Enigma Chess, College Station, Texas

January 2021 - Present

Founder, Hardware Lead

- Organized a team that would be responsible for the development of an automated chess set using an Arduino and a Raspberry Pi
- Persistently applying mechanical, electrical, and computer software knowledge to design, manufacture, and assemble the system

TAMUhack, College Station, Texas

UI Design Lead, PwC Challenge Winners

February 2020

- Handpicked to attend Texas A&M University 24-hour hackathon challenge
- Developed the user interface of an IOS application using Swift on XCode platform
- Presented a real time demonstration revealing the capabilities of application

Design Lead, Best First Time Hackers, CBRE Challenge Winners

January 2019

- Lead project management including the designing and building of the working prototype
- Responsible for the delivery of the sales pitch that resulted in a 1st 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

President

May 2021 - Present

- Elected to serve as the President of the organization for the 2021 - 2022 academic year
- Continually engage with members to establish an environment that stimulates professional, academic, social, and personal growth.
- Created numerous initiatives that encourage membership retention and technical development

Director of Technical Affairs

May 2020 - May 2021

- Elected to be responsible for the technical affairs seen throughout the chapter for the 2020-2021 academic year
- Established a committee that assists in website development duties, point system automation, and application development
- Meet weekly with executive board or committee to discuss and manage future events and goals
- Organized several initiatives that provided members with the opportunity to learn web development, JavaScript, and team skills

MentorSHPE Program

August 2018 - Present

- Selected as a mentor for two freshmen students pursuing a mechanical engineering degree
- Met with mentee monthly discussing personal development and their academic endeavors
- Participated as a mentee gaining valuable insight from an upperclassman mechanical engineering student

Skills

- CATIA V5, Autodesk (Inventor and AutoCAD), SolidWorks, Python, HTML, CSS, JavaScript, Arduino, Bilingual (English/Spanish)