**Joshua A. Duarte**

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| **Education** | |
| **University of California, Berkeley,** Berkeley, California  Master of Engineering in Mechanical Engineering, Concentration in Product Design  **Texas A&M University,** College Station, Texas  Bachelor of Science in Mechanical Engineering | Graduation: May 2023  GPA: 4.0/4.0  Graduation: May 2022  GPA: 3.594/4.0 |
| **Professional Experience** | |
| **Boeing,** Seattle, Washington May 2021 - August 2021  Boeing Test & Evaluation Flight Test Design/Build Intern   * Responsible for the design, prototypes, manufacturing, and installation of foreign object debris shields within 4 777X aircrafts * Developed parts, drawings, and assemblies using 3D modeling software CATIA V5, Enovia, and IVT for alignment within the aircrafts * Worked closely with lead design engineers in overseeing the project management for the installation of essential test equipment designed to manipulate the center of gravity and electrical load throughout an aircraft during flight testing     **ExxonMobil,** Houston, TexasJune 2020 - August 2020  UIS Wells Digital Innovation & Automation Intern   * Met and discussed with numerous Well Engineers to design a seamless user interface and data collection using Nintex Forms/Workflows, JavaScript, jQuery, HTML, CSS, along with VBA within Excel * Enhanced and developed a SharePoint tool that captures and distributes learnings found during the Well construction process * 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 * Constructed models, assemblies, and engineering drawings using 3D modeling and design software, CATIA V5, to fabricate solutions * Facilitated the development of a Subsystem Design and Analysis Lab at the request of sector leadership   **Projects** | |
| **Gambit,** College Station, Texas January 2021 - Present  Founder, Project Lead   * Organized a team that would be responsible for the development of an automated intelligent chessboard using Arduino and Python * Performed market research by analyzing surveys and design methods to uncover customer needs to ensure a desirable product * Persistently applying mechanical, electrical, and computer software knowledge to design, manufacture, and assemble the system * Developed software to efficiently orchestrate the sensing, movement, and chess engine subsystems using C programming   **BUTLR**, College Station, Texas December 2021 - Present  Founder, Project Lead   * Designing a planner to allow users to easily input tasks, events, and habits to then export to a variety of calendar applications * Attempting to incorporate machine learning through Python programming to effectively plan tasks and habits   **TAMUhack,** College Station, Texas  UI Design Lead, PwC Challenge Winners February 2020   * Collaborated with 2 other students in creating a project that provided resources to low-income students within a 24-hour period * Designed and implemented the user interface of an iOS application using Swift on the XCode platform * Awarded 1st place by presenting a real-time demonstration revealing the capabilities of the application   **Leadership Experience** | |
| **Society of Hispanic Professional Engineers,** College Station, Texas  President May 2021 - May 2022   * Led 8 board members to continuously impact members through professional, academic, technical, and social development which resulted in more than 400 members registered with the organization, the most seen in the 27-year history * Responsible for ensuring member engagement and retention through numerous weekly events and corporate sponsorships * Coordinated a 74.7% increase in members, 36.2% increase in corporate sponsorship, and a 181% increase in general event attendance from the previous years’ recorded metrics   Director of Technical Affairs May 2020 - May 2021   * Established a committee of 47 members, a 571% increase from the previous years, that assisted in the organization’s website development duties, point automation, and application development projects * Collaboration with the 8 other executive board members resulting in the recognition of the National Chapter of the Year Award | |
| **Skills** | |
| * Python, HTML, CSS, JavaScript, C++, CATIA V5, Autodesk (Inventor and AutoCAD), SolidWorks, Bilingual (English/Spanish) | |