**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: 3.861/4.0  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   * Developed and enhanced a SharePoint tool that captured and distributed learnings found during the Well construction process * 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 * 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** | |
| **Blue Goji: Omni-Directional Treadmill,** Berkeley, California August 2022 - May 2023   * Improved the industrial design and overall efficiency of an Omni-Directional treadmill by enhancing manufacturability and assembly * Utilized fabrication techniques including injection, machining and stamping to reduce overall footprint of the system by 57% * Created and managed comprehensive project plans, including timelines, budgets, BOMs, and resource allocation for a team of 10   **Gambit,** College Station, Texas January 2021 - May 2023   * Persistently applied mechanical, electrical, and computer software knowledge to design and manufacture an intelligent chessboard * Developed algorithms to efficiently orchestrate the sensing, motion, and chess engine subsystems using C++ programming * Performed market research by analyzing surveys and design methods to uncover customer needs to ensure a desirable product   **Gimbal,** Berkeley, California February 2023 - March 2023   * Independently designed and developed a 3-axis sliding gimbal for a webcam by incorporating user-centric design principles, product protection, and manufacturing considerations while using only readily available materials and tools * Led end-to-end design process, from conceptualization, 3D modeling, prototyping, and analysis, to final model within 7-day timeframe   **Apple Vision Pro Packaging, Waxahachie, Texas** June 2023 - July 2023   * Independently designed and developed packaging solutions for the unreleased Apple Vision Pro spatial computing headset by incorporating user-centric design principles, product protection and sustainability considerations * Led end-to-end packaging design process, from conceptualization to 3D modeling and analysis within a seven-day timeframe   **Leadership Experience** | |
| **University of California, Berkeley,** Berkeley, California September 2022 - May 2023  Master Of Engineering Student Ambassador   * Engaged with prospective students by representing the Master of Engineering program with an aim to recruit and inform * Oversaw the creation and execution of events for the 2022-2023 cohort to establish a greater sense of community and connection   **Society of Hispanic Professional Engineers,** College Station, Texas May 2021 - May 2022  President   * 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, a 74.7% increase in members from the previous year * Coordinated a 36.2% increase in corporate sponsorship and a 181% increase in general event attendance from recorded metrics through new initiatives tailored for professional, academic, social, and technical development * Oversaw 2 committees that were focused on improving the efficiency of event creation and execution across the organization | |
| **Skills** | |
| * CAD (SolidWorks/CATIA V5), FEA, GD&T, Data Analysis, Python, JavaScript, C++, HTML5/CSS, Bilingual (English/Spanish) | |

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