**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** | |
| **Blue Goji: Omni-Directional Treadmill**, Berkeley, California August 2022 - Present  Product Designer   * Enabling users to physically move in any direction within virtual reality through a functional omni-directional treadmill * Improving the industrial design, real-time controls, and overall efficiency for substantial manufacturability and a greater user experience   **HP: ‘Phygitally’ Connected, Berkeley, California**  September 2022 - Present  Project Lead, Product Designer   * Using VR, AR, or other hardware interfaces to allow users to virtually engage in social or physical interactions in a natural manner * Conducting user and market research to design and produce an effective, attractive, and human centered product   **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   **Leadership Experience** | |
| **U.C. Berkeley Master of Engineering Ambassador,** Berkeley, California September 2022 - Present   * 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   **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 | |
| **Skills** | |
| * Python, HTML, CSS, JavaScript, C++, CATIA V5, Autodesk (Inventor and AutoCAD), SolidWorks, Bilingual (English/Spanish) | |