

Alexander Briones
Biomedical Engineering with a Certificate in Engineering Project Management
Innovation Fellows Program - University of Florida
Herbert Wertheim College of Engineering

Alexander Briones is a fifth year Biomedical Engineering and Engineering Project Management student at the University of Florida. Being a part of a military family his entire life, he had the privilege of moving to all corners of the United States and even spent four years living overseas in Yokosuka, Japan. It was after this station that Alexander and his family found themselves living in Jacksonville, Florida, where he spent all four years of high school, leading him to attend the University of Florida to pursue a technical degree.



Throughout his time at the University of Florida, Alexander would take on an active role in various multi-disciplinary and extracurricular student organizations. Alexander began his college career joining the Freshman Leadership Engineering Group, planning and executing events with engineering and non-engineering organizations to bring the two student bodies together. He has also served as a Dance Marathon Ambassador, leading fundraising efforts to new heights. Additionally, he volunteered as a camp counselor for the Florida Diabetes Camp, becoming proficient in diabetes management, working with nursing staff and pediatric endocrinologists to give over 100 kids with Type 1 Diabetes a summer filled with fun memories.

In addition to his philanthropic efforts, Alexander has taken on multiple roles to grow as a leader and as an engineer. Alexander has worked with Dream Team Engineering, in conjunction with UF Shands Hospital, to design and complete a functional model MRI to reduce pediatric patient anxiety. In addition to this, Alexander has worked in both the Human Neuromechanics Laboratory and the UF Program for Neurotrauma, Neuroproteomics, and Biomarker Research to study the effects of aging on gait and traumatic brain injury on cardiac arrest, respectively.

The combination of coursework and extracurricular involvement at the University of Florida gave Alexander a varied skillset in leadership, problem-solving, and teamwork. With this, Alexander went on to work at Edwards Lifesciences from January to August 2023 as a Clinical Development Engineering Co-Op. Here, he spent 8 months supporting the development and post market surveillance of the PASCAL System, a cardiac medical device used for Transcatheter Edge-to-Edge Repair (TEER). Following his time at Edwards Lifesciences, he began a new role this Fall at Exactech as a Product Design Engineering Intern. Here, he currently leads the design, development, testing, and launch of specialized surgical instruments for the Vantage Total Ankle Replacement System.

Throughout his undergraduate career, Alexander has worn many hats, picking up skills in SolidWorks, MATLAB, Agile Scrum, Minitab, DFM, and more, even gaining certifications as an Emergency Medical Responder and Certified SolidWorks Professional. Ultimately, he plans to leverage all of his experiences in the medical device industry post-grad, acting as a leader and driver of innovative product development to impact as many patients as possible.