

Joshua Khokhlan
Undergraduate Mechanical Engineering Student
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Joshua Khokhlan began his undergraduate studies at the University of Florida in Mechanical Engineering in the Fall of 2017. His natural skill and passion for problem solving, physical sciences, and mathematics led him to pursue this study. Joshua is looking to graduate in the Fall of 2021 with a minor in Engineering Innovation. Joshua aims for a career where he knows he is making a positive impact on the world and creating innovative solutions to create ease in human life.



During his undergraduate studies he took a role as a project lead for the class Design and Manufacturing Lab. In the course, Joshua, and a group of three other students were given a project to design and manufacture a prototype robot that would pick up a bucket of mixed golf balls and tennis balls, sort the balls and dispense them into separate buckets while going through an obstacle course as fast as possible. The robot had to be built under industry specifications and fit the available budget.

Throughout the design process Joshua and his team had to assess if they should design for functionality or speed, and how they could cut material costs and build time for the prototype. In regard to the machining process, his group was given limited time to operate on machinery to build components. Joshua delegated roles and set weekly goals for his team members each week to ensure maximum efficiency and motivation. Overall, his team finished the bot successfully and placed 5th out of over 40 students in the semester competition. This was a milestone in Joshua's undergraduate studies as it opened him up to a practical engineering experience while working in a team. Joshua learned how to find the best in every person and matching skills to roles.

In addition, Joshua was involved with an on campus fraternity and sought to obtain leadership skills in his experience with it. In the Spring of 2019, he was elected to serve on the executive board as House Manager with 11 other executives in a chapter of over 200 active members. He had his own personal responsibilities as well as executive responsibility representing the chapter at the University of Florida. Some of his responsibilities included ensuring the house was up to code for the semester fire inspections, where Joshua maintained the highest Level 1 safety rating which in return cut out insurance costs from the semester expenses. In addition, Joshua raised over \$1000 in the Summer term selling available parking spots in the house parking lot. With his executive board, Joshua contributed to the improvement of collecting semester funds, reducing overall debt, and organization of a Spring Family and Alumni weekend on a \$2000 budget.

Outside of education, Joshua has a strong dedicated his hobbies. Regarding health and fitness, he maintains a daily exercise routine and diet to keep his body in prestige condition. He believes his body is like a machine and however he utilizes it has an effect on his performance: physically, mentally, and emotionally. His passion for music led him to pursue music production and sound engineering. He helped organize and promote music events and has played opening DJ sets for artists such as: Shaun Frank, Marcus Shulz and John Summit. The best way to describe Joshua is he is a self-starter. He only needs himself to take initiative in getting the job done and living his life to be able to do what he truly loves.