

Nicholas Foster
Robotic Exoskeleton

The purpose of this engineering project was to design and build a robotic exoskeleton that would help factory/truck/shipyard workers, soldiers, elderly people, and paralyzed people by giving them a way to move faster, be agiler, and become stronger. More than 100 men and women in the United States die every day as a result of their work, according to a report from the AFL-CIO. This project could prevent over 50 deaths a day. This project could prevent over half of those deaths. This investigation involved designing, building, and testing the two prototypes against a set of criteria. The second prototype met 100% of the design criteria, even though there were some minor bugs. Based on the prototype analysis, my next prototype will have metal and 3D printed parts, better servos, better batteries, and have a more user-friendly interface.