

My Capstone project proposes the implementation of a 6 Degrees of Freedom (6 DOF) robotic system to handle the organization of the parts need. In tandem, I will develop a centralized database to ensure real-time data integration for inventory control.  
  
Sponsored by Edison Motors, this project offers a unique opportunity to contribute meaningfully to the improvement of the production processes for the Edison Truck and Light Tower.

I have identified critical challenges that have been impeding production, specifically revolving around organizational efficiency and parts inventory management. These challenges have posed significant hurdles in meeting production timelines, impacting the overall effectiveness of Edison Motors' manufacturing operations.

In response to these challenges, my Capstone project proposes implementing a 6 Degrees of Freedom (6 DOF) robotic system.  
  
In conjunction with the robotic system, I aim to develop a database system that will play a role in ensuring real-time data integration for inventory control. This database will serve as the backbone of the inventory management system, providing comprehensive insights into the status and availability of parts. Real-time data integration will not only facilitate more informed decision-making but also contribute to the reduction of lead times and potential bottlenecks in the production pipeline.