

Robotic Storage & Retrieval System

2018-19

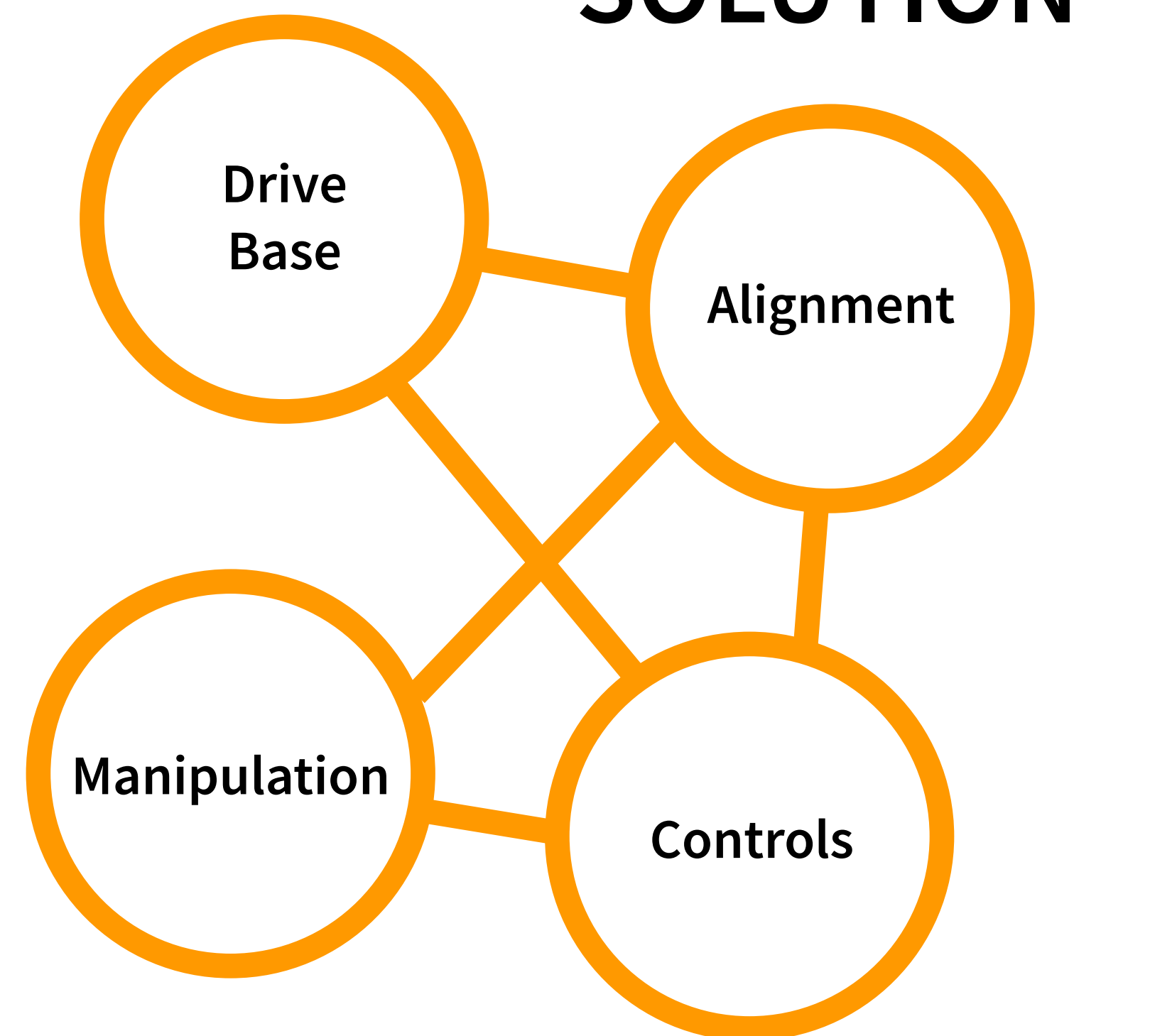
Amazon Robotics Scope Team

PROBLEM

Automated warehouses are the future of e-commerce industry. How will we store and fetch yellow totes in Amazon's warehouse on demand?



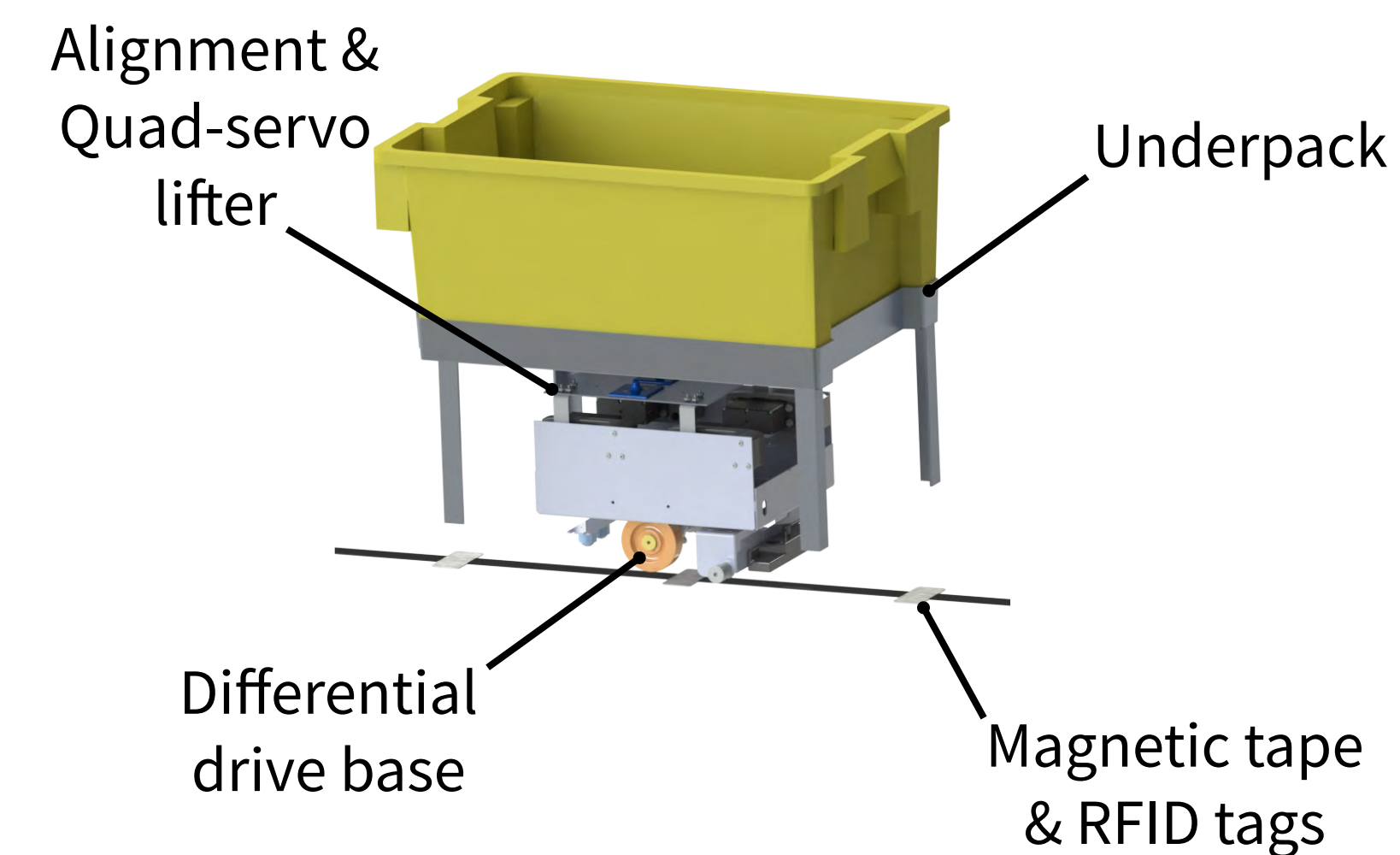
SOLUTION



We suggested a **four part** solution to the given problem

SYSTEM

Our proof of concept system integrated the four part solution seamlessly. Magnetic tape and RFID tags were used for **controls** and navigation. Underpack, **alignment**, and quad-servos achieved reliable tote **manipulation**. Differential **drive base** allowed for accurate navigation around the environment.



RESULTS



- 3+ Robot Iterations
- 2 Novel Solutions
- 1 Patent Pending

THE TEAM

Advisor



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