

PLTW High School

Design Brief

Client	Parts 3 Parcel Delivery Company
Target Consumer	Parts 3 parcel delivery employee.
Designer(s)	Eric Kenner, Carson Gulk, Carson McDowell, Connor Munyan
Problem Statement	P3P delivery workers handle packages all day and face repetitive lifting, carrying, and organizing tasks that cause strain and poor efficiency. Workers need a device that moves packages quickly and safely without constant bending or unnatural lifting.
Design Statement	We will design a device to relieve strain on workers at P3P that is efficient and safe at lifting and moving packages, staying within our \$50 budget.
Criteria	<ol style="list-style-type: none"> 1. Must result in more than one ergonomic improvement. 2. Doesn't weigh more than 10 lbs or cost more than \$50. 3. Achieve 80% approval rate 4. Doesn't reduce productivity
Constraints	<ol style="list-style-type: none"> 1. Must use only class approved materials 2. Completed by Dec. 12. 3. Stay within \$50 budget. 4. No more than 10 pounds