

## MME 4499 – Mechanical Engineering Capstone Project Proposal Document

Name of Sponsor	The PATCH
Title of Project	
Re-Tractor	
Brief Project Description	
<p>Development of a working prototype four wheeled electric vehicle based on recycled and reclaimed parts including bicycle, electric battery-based yard work equipment and other recycled and reclaimed products at the discretion of the students and professors. The vehicle would be used at the Western Fair Grounds as well as Cavendish Community Food Hub to haul our Tower Gardens as well as compost.</p>	
Desired Project Deliverables	
<p>A working prototype that can carry a driver (maximum 250 pounds) as well as up to 200 pounds of payload. We envision the vehicle would be able to travel a minimum of 5 kilometres between charges. If possible, the accessibility to a rear box style bed would be an asset. Our dimensions for loading the bed would be approx. 36 inches x 36 inches minimum.</p>	