Project Description

The Air Force Research Laboratory produced a university challenge to develop a vehicle capable of carrying loads that are physically and mentally taxing to airmen needing to be at peak capability. The project was submitted to competition where safety, performance, usability, creativity, and vehicle size were all considered for solution criteria.

Specific criteria included: A carrying capacity of 350lbs, travelling speeds between 3 and 15mph, and the ability to traverse terrains at least 2 mi in length.

Project Solution

The solution produced was a rugged and versatile all terrain vehicle. The vehicle exceeded specified criteria in a number of areas including capabilities of carrying 800lbs, with top speeds of 16.3mph, the ability to traverse nearly 10 mi between charges, and a platform capable of numerous tie-downs for any number of various applications. At a cost of $11,800, this vehicle can be used in load carrying missions for airmen, humanitarian aid applications, and various munitions delivery missions.