

UCSD ECE 191
Engineering Group Design Project
Spring 2009

Sponsor: ViaSat
Mentor: Chuck Pateros

Title: Land Mobile Satellite Systems

Problem: ViaSat is sending a team of 8 riders in the Race Across America on June 20. Vehicles will be outfitted with mobile satellite communication systems to provide internet access and live video/audio from the race. The system was designed for maritime use and must be adapted for use in a land vehicle.

The goal of this project is to design, build and test 3 modified systems for use in the race, two by the race media crew, and one by the ViaSat team. There will be mechanical, electrical, electronic hardware and/or software required based on the design decisions made by the students. A user's manual and training material will be generated. The students may have the opportunity to join the race crew (expenses paid) for the trip across the country (June 20 - ~26).