Look Mom! No hands!
A WebQuest for No Driver? No Worries!

Introduction
Imagine hopping into your car, driving on busy city streets for several kilometers, and parallel parking your car at your selected destination. It seems like a routine task that millions of people do every day. Now imagine doing the same task with your eyes closed and your hands folded behind your head! Scientists and engineers are working to make this a reality. The automated car of the future will navigate, follow the rules of the road, and avoid collisions as well as, if not better than, cars driven by humans.

Task
In this WebQuest, you will research the advancements made in automated car technology. You will brainstorm the potential benefits of using automated cars in a city setting, and then use your ideas to design a poster to advertise an automated car service. Share your poster with the class.

Process
Use the resources listed in the Resources section to begin your research. The Web sites listed are good starting points, but further Internet research will be necessary. Record your answers to the following questions.

1. List at least three specific skills that an automated car must be able to perform.
2. What is an autonomous cruise control system and how does it relate to autonomous vehicles?
3. What benefits do you anticipate an automated car can provide in a city setting?

Design a Poster
After you have researched automated cars and answered the previous questions, create a poster advertising the benefits of automated cars in a city setting. First, create an outline of at least three benefits that will be included in your poster and then make a sketch of the layout and design of your poster before making the poster. Then collect supplies to make your poster, including color images, glue, and markers. Finally make your poster using images and words to make your poster engaging and persuasive and share your poster with the class.

Resources
DARPA Grand Challenge
Automated Road Vehicles
Berkeley Institute of Transportation Studies
Virginia Tech Autonomous Vehicle Team
Navlab: Carnegie Mellon University Navigation Laboratory (search Navlab)
OSU Control and Intelligent Transportations Research Lab

Evaluation
Read this rubric to see how you will be scored on this activity.

Criteria					Points
	0	**5**	**10**	**15**	
Process	The process was not followed and questions were not answered.	The process was followed but answers to questions showed no evidence that resources were used.	It was evident that resources were used to answer process questions but answers were incomplete or incorrect.	Answers to process questions were complete and supported by evidence from resources.	
Design a Poster	A poster was not made.	A poster was made but it did not provide at least three benefits of automated cars.	A poster was provided that stated three or more benefits but lacked support for the ides and/or was not persuasive.	A poster was provided that clearly stated three or more benefits of automated cars. The poster was engaging and persuasive.	
Total Score					