



Senior Design Project in Electrical and Computer Engineering



Autonomous Ground Vehicle

1/c Adam Reckley

1/c Brian Seekatz

1/c Jeff Matejka

Swazsek (URI)

Advisors:

CAPT Richard Hartnett,

Dr.

Sponsors:

C2CEN,

Project Goals:

- Develop an autonomous ground vehicle capable of navigating to GPS waypoints while avoiding designated boundaries.
- Compete in the 16th annual Intelligent Ground Vehicle Competition (IGVC).
- Develop an in-depth understanding of autonomous navigation technology.



Background Information:



Great potential to benefit the Coast Guard by automating the vital process of navigation. Navigation technology similar to the technology used in this project could be used in Coast Guard as the UAV. The vehicle is designed to compete against other schools in the Intelligent Ground Vehicle Competition in Rochester, Michigan May 30-June 2, 2008.

Results:

2006-2007 AY VEHICLE:



2007-2008 AY VEHICLE:

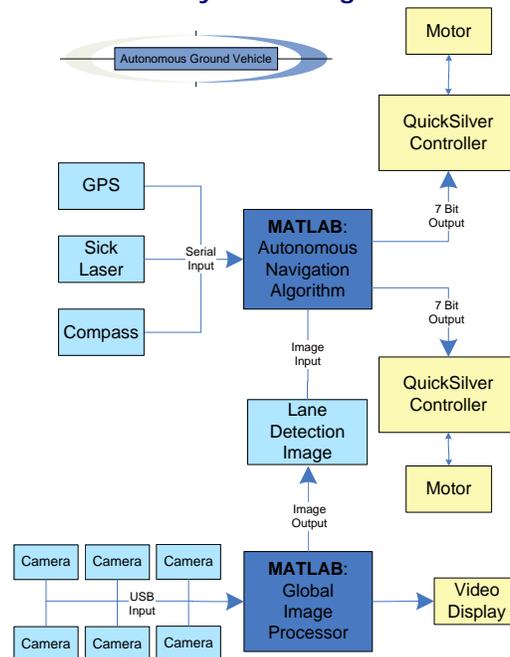


CURRENT VEHICLE
INTERIOR



DIGITAL INTERFACE W/
CONTROLLERS

System Design:



Project Timeline:

- Mar 25: System Integration & Testing
- May 15: End of Spring Semester
- May 30: Intelligent Ground Vehicle Competition