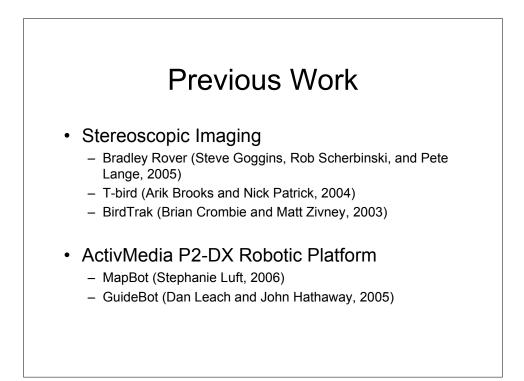
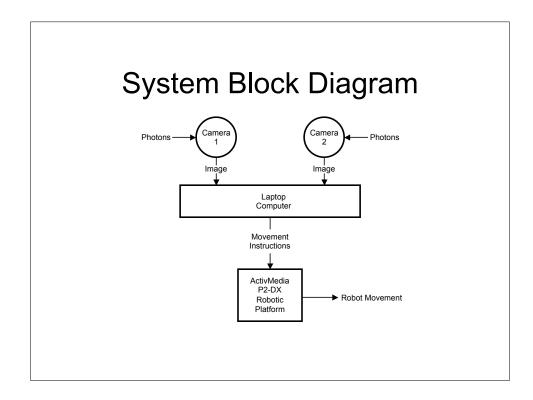
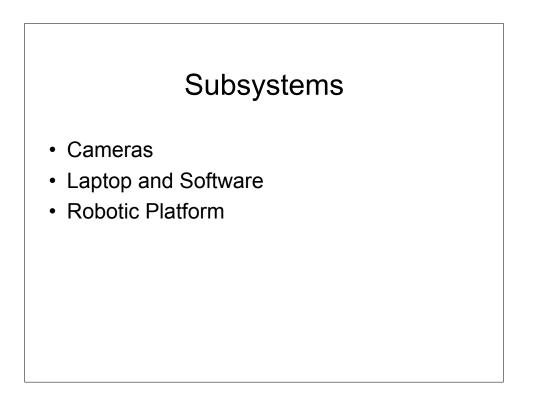


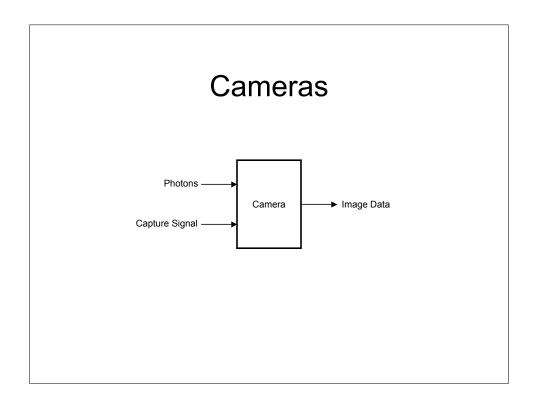
Project Overview

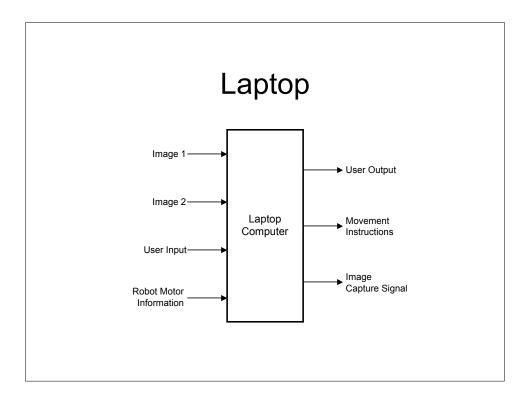
- The objective of our project is to develop a vehicle that can navigate autonomously through a terrain of obstacles.
- Utilizes Stereoscopic Imaging
- Two Modes of Operation
 - Calibration Mode
 - Navigation Mode

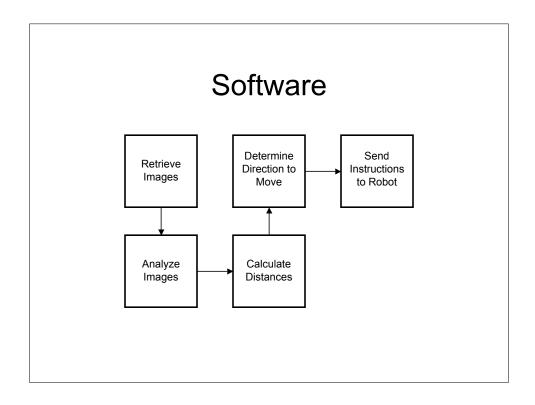


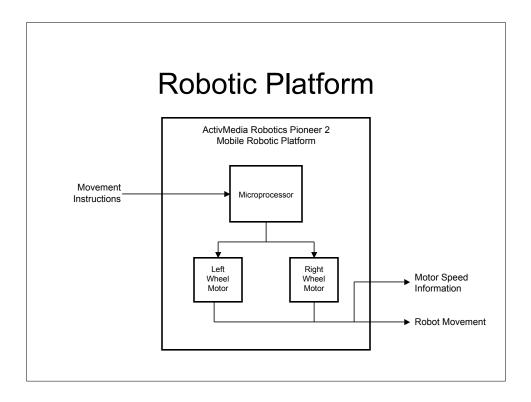


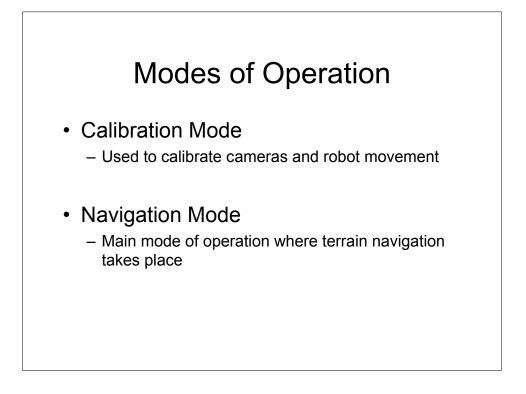


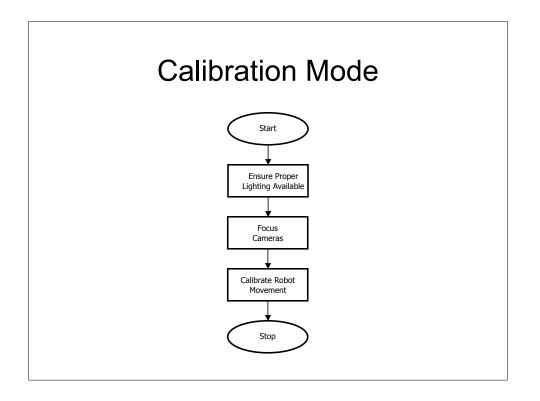


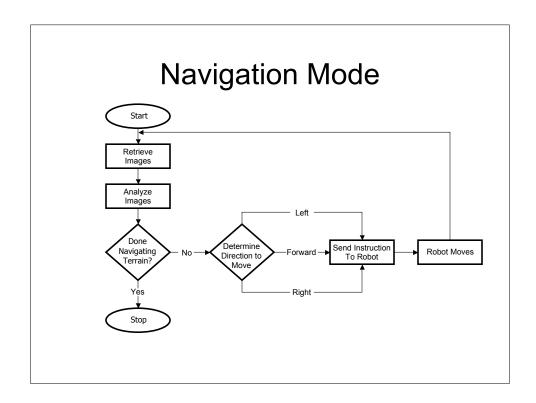


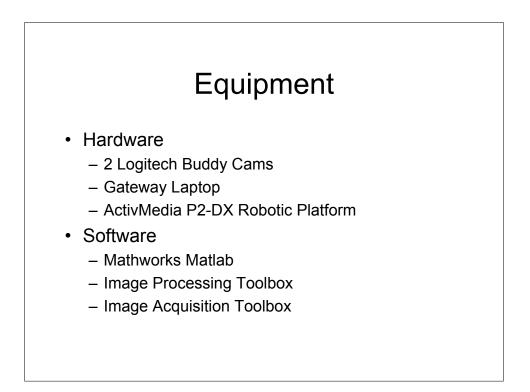












Work Performed to Date

| Week of | Task | Assigned To |
|---------|--|-------------|
| 10/8 | Get Specs of Robot Platform | Nick |
| | Review Relevant Prior Senior Projects | Both |
| | Research Cameras | Adam |
| 10/15 | Research Image Processing/Acquisiton Toolboxes | Nick |
| | Continue Researching Cameras | Adam |
| 10/22 | Test Available Cameras with Matlab | Both |
| | Continue Researching Cameras | Both |
| 10/29 | Continue Researching Cameras | Both |
| 11/5 | Setup Gateway Laptop | Adam |
| | Continue Researching Cameras | Nick |
| 11/12 | Continue Researching Cameras | Both |
| | Project Deliverable Documents | Nick |
| 11/19 | Thanksgiving Break! | Both |
| 11/26 | Performed Color Testing on Buddy Cams | Adam |
| | Project Deliverable Documents | Nick |

| Spring Schedule | | | | |
|-----------------|---|--------------|--|--|
| Week of | Task | Assigned To | | |
| 1/21 | Adjust Pinhole Equations for Horizontal Cameras Begin Development of 3D Map Software | Nick Adam | | |
| 1/28 | Begin Distance Calculation Software Continue 3D Map Software | Nick Adam | | |
| 2/4 | Continue Distance Calculation Software Continue 3D Map Software | Nick Adam | | |
| 2/11 | Continue Distance Calculation Software Continue 3D Map Software | Nick Adam | | |
| 2/18 | Begin Edge Detection Algorithms Begin Interfacing Robot Platform with PC/Matlab | Nick Adam | | |
| 2/25 | Continue Edge Detection Algorithms Continue Interfacing Robot Platform | Nick Adam | | |
| 3/4 | Continue Edge Detection Algorithms Continue Interfacing Robot Platform | Nick Adam | | |

Spring Schedule

| Week of | Task | Assigned To |
|---------|--|-------------|
| 3/11 | Continue Edge Detection Algorithms | Nick |
| | Continue Interfacing Robot Platform | Adam |
| 3/18 | Spring Break! | Both |
| 3/25 | Begin Direction Decision Algorithms | Nick |
| | Begin Implementing Max Time | Adam |
| 4/8 | Continue Direction Decision Algorithms | Nick |
| | Continue Implementing Max Time | Adam |
| 4/15 | Continue Direction Decision Algorithms | Nick |
| | "Close the Loop" with Motor Speed Feedback | Adam |
| 4/22 | Continue Direction Decision Algorithms | Nick |
| | "Close the Loop" with Motor Speed Feedback | Adam |
| 4/29 | Continue Direction Decision Algorithms | Nick |
| | "Close the Loop" with Motor Speed Feedback | Adam |

