

Team Meeting

September 29, 2014

Team E19 (M21)

- Talked about meeting 2 days a week not only 1
 - Still meetings at 4 on Mondays (prototyping, technical design, etc)
 - Adding a meeting on Thursday (working on reports, presentations, anything not finished Monday)
- The depth sensor and GPS are going to be a price/complexity problem
- There is a 20\$ pre-built chassis for sale listed on the Facebook site
- Should the camera be bought first and worked around?
 - Necessary camera specs
 - Tilt/pan
 - Recording
 - Infrared
 - Waterproof
 - Zoom
 - Top mounted vs front mounted camera
 - Multiple cameras adds additional complication of multiple interfaces
 - Possibly build own pan/tilt using gears
 - There is a 30\$ adaptor to go from camera to computer which allows for video recording and image capturing that is listed on the Facebook page
- Mechanism/body considerations
 - Size and shape
 - Flipping analysis
 - Motors and such
- Rough schedule for deadlines and prototyping
 - Component Breakdown
 - Week 6-8
 - Layout individual components of tortoise scope functionality
 - Decide overall initial design
 - Decide CAM/Design Tilt and Pan
 - Week 6-9
 - Perform research on available options
 - Design camera housing
 - Purchase Prototype Material
 - Week 7-8
 - Purchase chassis
 - Allow enough time for materials to be shipped
 - Presentation 1: Conceptual Design
 - Week 8-9
 - Initial CAD model
 - Prepare for presentation

- First Functioning Prototype
 - Week 10-12
 - Assembly of prototype
 - Begin testing of first prototype
- Presentation 2: Interim Design Review
 - Week 13
 - Prepare for presentation
- Finalize Refined Design
 - Week 13-15
 - Develop a workable prototype
- Presentation 3: Final Design Presentation
 - Week 15