

Computer Integrated Surgery II: Surgical Tool Tracking Prototype

Feb 12, 2013

Yejin, Sue

<http://>

Project managers:

Dates: Feb 11, 2013 - May 14, 2013

Complete: 0%

Tasks: 48

People: 2

Tasks

| Name | Begin date | End date |
|--|------------|----------|
| Project Proposal | 2/11/13 | 2/17/13 |
| Determine Seminar Topic | 2/11/13 | 2/17/13 |
| Phase 1 | 2/19/13 | 3/12/13 |
| Research Multi-Camera Calibration | 2/19/13 | 2/24/13 |
| Research Segmentation Methods | 2/25/13 | 3/3/13 |
| Research Tracking Algorithm | 2/25/13 | 3/3/13 |
| Create Off-line Calibration to Tracking | 3/4/13 | 3/10/13 |
| Determine Constraints on Prototype | 2/19/13 | 2/24/13 |
| Determine Optimal Equipment | 2/25/13 | 3/3/13 |
| Write Budget Proposal | 2/25/13 | 3/3/13 |
| Order Equipment and Supplies for Phantom | 3/4/13 | 3/12/13 |
| Create Blueprint of Anatomy (Eye and Face) | 3/4/13 | 3/10/13 |
| Seminar Presentation | 3/11/13 | 3/11/13 |
| Checkpoint Presentation | 3/31/13 | 3/31/13 |
| Milestone 1: Off-line Tracking System Pipeline | 3/11/13 | 3/10/13 |
| Milestone 2: Prototype and Phantom Design | 3/15/13 | 3/14/13 |
| Phase 2 | 3/11/13 | 5/5/13 |
| Implement Calibration Scheme | 3/11/13 | 3/16/13 |
| Build Phantom Eye (part of initial prototype) | 3/11/13 | 3/16/13 |
| Adjust Calibration Scheme as needed | 3/24/13 | 3/30/13 |
| Complete Initial Prototype (attach cameras) | 3/25/13 | 3/31/13 |
| Run Implementtion Tests | 4/1/13 | 4/7/13 |
| Implement Segmentation Scheme | 4/8/13 | 4/21/13 |
| Run Segmentation Tests | 4/8/13 | 4/14/13 |
| Adjust Segmentation Scheme as needed | 4/8/13 | 4/14/13 |
| Implment Tracking Scheme | 4/22/13 | 5/5/13 |

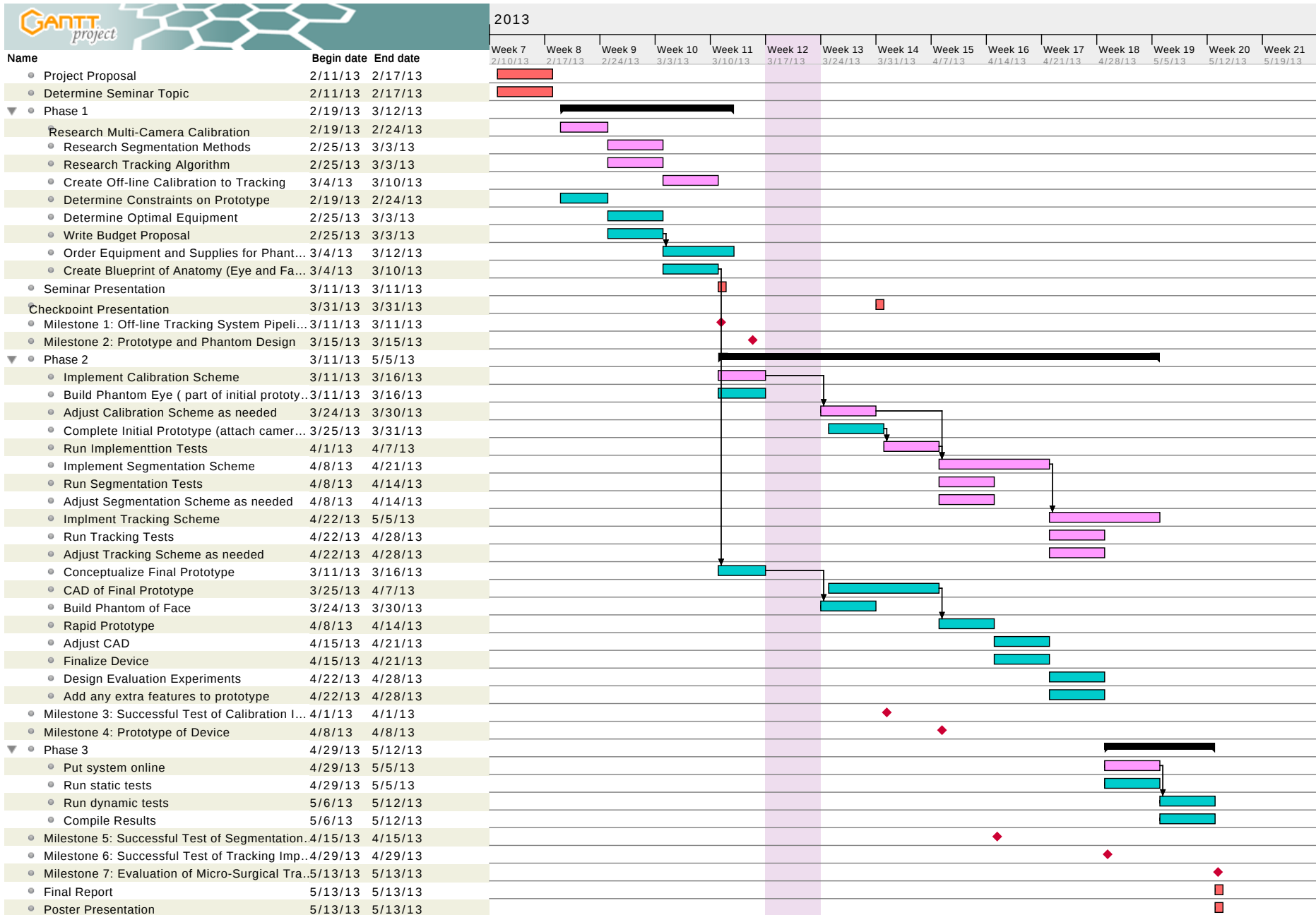
Tasks

| Name | Begin date | End date |
|---|------------|----------|
| Run Tracking Tests | 4/22/13 | 4/28/13 |
| Adjust Tracking Scheme as needed | 4/22/13 | 4/28/13 |
| Conceptualize Final Prototype | 3/11/13 | 3/16/13 |
| CAD of Final Prototype | 3/25/13 | 4/7/13 |
| Build Phantom of Face | 3/24/13 | 3/30/13 |
| Rapid Prototype | 4/8/13 | 4/14/13 |
| Adjust CAD | 4/15/13 | 4/21/13 |
| Finalize Device | 4/15/13 | 4/21/13 |
| Design Evaluation Experiments | 4/22/13 | 4/28/13 |
| Add any extra features to prototype | 4/22/13 | 4/28/13 |
| Milestone 3: Successful Test of Calibration Implementation | 4/1/13 | 3/31/13 |
| Milestone 4: Prototype of Device | 4/8/13 | 4/7/13 |
| Phase 3 | 4/29/13 | 5/12/13 |
| Put system online | 4/29/13 | 5/5/13 |
| Run static tests | 4/29/13 | 5/5/13 |
| Run dynamic tests | 5/6/13 | 5/12/13 |
| Compile Results | 5/6/13 | 5/12/13 |
| Milestone 5: Successful Test of Segmentation Implementation | 4/15/13 | 4/14/13 |
| Milestone 6: Successful Test of Tracking Implementation | 4/29/13 | 4/28/13 |
| Milestone 7: Evaluation of Micro-Surgical Tracker | 5/13/13 | 5/12/13 |
| Final Report | 5/13/13 | 5/13/13 |
| Poster Presentation | 5/13/13 | 5/13/13 |

Resources

| Name | Default role |
|-------------|------------------|
| Yejin Kim | no specific role |
| Sue Kulason | no specific role |

Gantt Chart



Resources Chart

