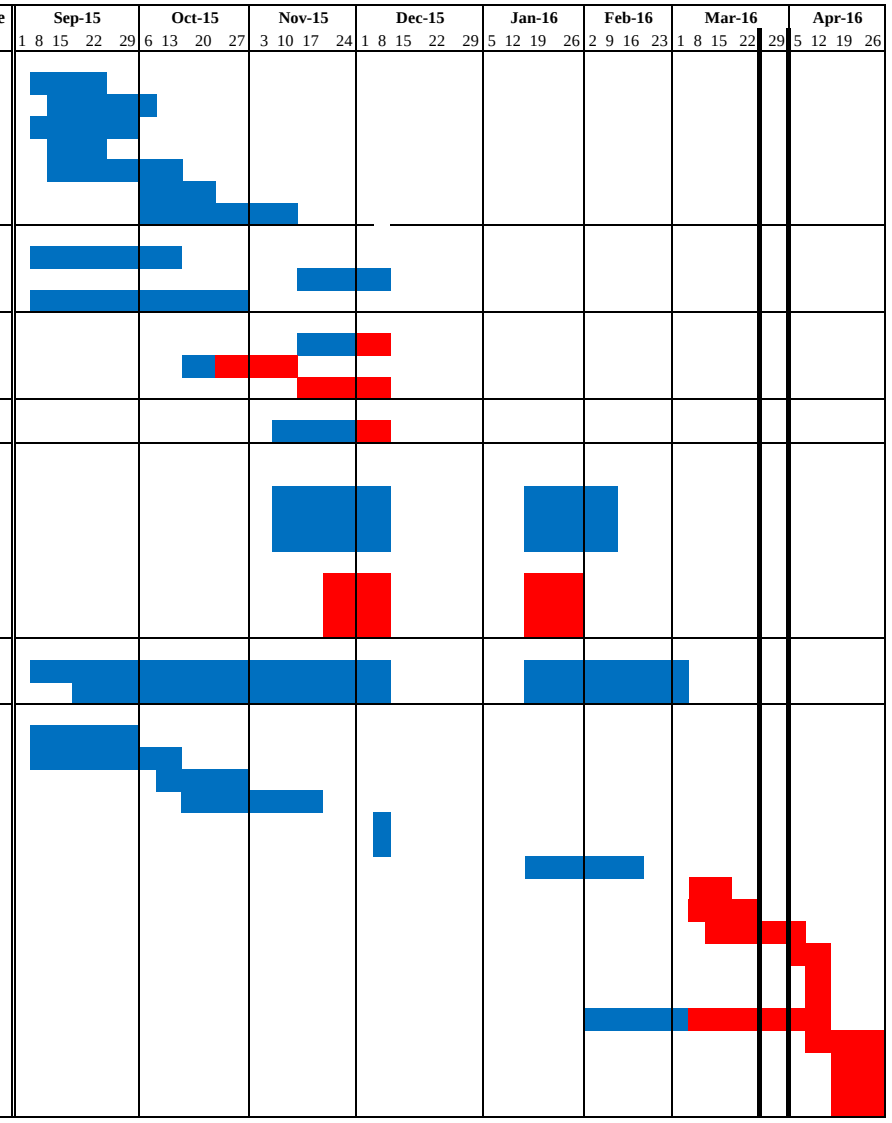
| Task Name | Group Member | Finish by Date/Due |
|---|---|---|
| **Individual Behavior** | | |
| Research Kilobot Sensors | Jared | September 28, 2015 |
| Research Kilobot Communication Protocol | Jared | October 12, 2015 |
| Research Q-bot Image Processing | Ryan/Greg | October 5, 2015 |
| Research Q-bot Sensors | Ryan/Greg | September 28, 2015 |
| Reseach Q-bot Communication Protocol | Ryan/Greg | October 19, 2015 |
| Reseach E-puck Sensors | Brittany | October 26, 2015 |
| Research E-puck Communication Protocol | Brittany | |
| **Individual Communication** | | |
| Research/Test Kilobot - Kilobot | Jared | October 19, 2015 |
| Research/Test E-puck - E-puck | Brittany | December 14, 2015 |
| Research/Test Qbot - Qbot | Ryan/Greg | November 2, 2015 |
| **Integrated Communication** | | |
| Test Kilobot - E-puck | Jared/Brittany | December 14, 2015 |
| Test Kilobot - Qbot | Jared/Ryan/Greg | November 16, 2015 |
| Test E-puck - Qbot | Brittany/Ryan/Greg | December 14, 2015 |
| **Algorithm Design** | | |
| Design Linear Based Model | All | December 14, 2015 |
| **Integrated Behavior** | | |
| *Formation Control Behavior* | | |
| Localization | All | January 25, 2016 |
| Point Convergence | All | January 25, 2016 |
| Leader Follower | All | January 25, 2016 |
| *Flocking Behavior* | | |
| Neighbor Repulsion | All | February 1, 2016 |
| Enpoint Attraction | All | February 1, 2016 |
| Heading | All | February 1, 2016 |
| **Testing** | | |
| Software Implementation | All | March 7, 2016 |
| Hardware Implementation | All | March 7, 2016 |
| **Deliverables** | | |
| Project Proposal - Oral Presentation | All | October 1, 2015 |
| Project Proposal - Document | All | October 15, 2015 |
| Webpage Release | All | October 28, 2015 |
| Fall Progress Presentation | All | November 19, 2015 |
| Fall Performance Evaluation | All | November 19, 2015 |
| Fall Performance Review | All | Decemeber 3, 2015 |
| Spring Progress Presentation | All | Feburary 18, 2016 |
| Student Expo Abstract | All | March 18, 2016 |
| Project Demostration | All | March 24, 2016 |
| Final Presentation | All | April 7, 2016 |
| Student Expo Poster Printing Deadline | All | April 11, 2016 |
| Student Expo Poster Setup | All | April 12, 2016 |
| Sudent Expo | All | April 14, 2016 |
| Final Report (Draft) | All | April 14, 2016 |
| Final Report | All | April 28, 2016 |
| Final Web Page | All | April 28, 2016 |
| Advisory Board Poster Printing Deadline | All | April 28, 2016 |
| Advisory Board Poster Presentation | All | April 29, 2016 |



**2/11/16 – 3/24/16**

Over the past few weeks, Greg and Ryan were able to make a few significant accomplishments. They implemented object avoidance using fuzzy logic. The QBots avoid objects in front of them based on the position and distance in relation to the QBots. The logic is "fuzzy" because of the smooth transitions between the different states. The QBots can now flock in formation. They move in a sinusoidal motion while maintaining the same triangle formation. Finally, the QBots can change from one formation to another, such as a triangle into a straight line. They will be able to navigate a narrow passage by lining up instead of staying in a triangle.

Jared and Brittany have been working on the E-pucks together. They have had a significant accomplishment, where they are able to un-brick all the E-pucks and have three E-pucks continuously working. They have worked on creating a square algorithm, as well as IR communication, and turning to a certain angle while communicating with the other E-pucks. They have also worked on creating a better way to have the batteries produce power. The E-pucks now have an add-on to the top to have a better battery connection. Jared and Brittany have noticed that this has increased the battery life significantly.