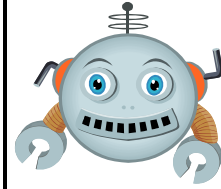


TEAM 192 2009 PROJECT PLAN

Adult Advisor: Bob Ekman

<i>Team members</i>	<i>Bot 1 (CBC)</i>	<i>Bot 2 (Create)</i>	<i>Documentation</i>	<i>Notes</i>
Stephen C	Terry S*	Stephen C	Dana R	We'll kick bot!
Terry S	Nick A	Alex O*	Katie D	
Dana R	Andrew B	Jesse S		
Nick A	Richard A	Joshua R		
Andrew B	Matthew S	Peter D		
Alex O	James K	Russel W		
Joshua R				
Peter D				
Russel W				
Matthew S				
Richard A				
James K				
Gurpreet (Jesse) S				
Katie D				

* This person also contributes raw information to the Documentation Lead



Availability Chart

<i>Team members</i>	<i>Jobs</i>	<i>Wednesdays</i>	<i>Saturdays</i>	<i>Spring Break</i>
Stephen C	Leader	OK	OK	Away
	Second-in-command			
Terry S		OK	OK	OK
Dana R	Documentation	OK	No afternoons	Away
Nick A	Building	OK	OK	OK
Andrew B	Coding	OK	OK	OK
Alex O	Planning	OK	OK	OK
Joshua R	Coding	OK	OK	OK
Peter D	Coding	OK	No afternoons	Away
Russel W	Planning	OK	No afternoons	Away
Matthew S	Building	OK	No afternoons	OK
Richard A	Coding/planning	OK	OK	OK
James K	Planning	Never	OK	OK
Gurpreet (Jesse) S	Coding	OK	OK	OK
Katie D	Testing/doc	OK	No mornings	OK



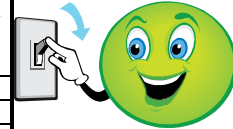
Week 1				
Goals	Responsible	Milestone	Status	Notes
Build Game Board	ALL	23-Feb-09	Complete	Completed and fully functional!
Learn Game Rules (watch promo video)	ALL	23-Feb-09	Complete	Potential challenges include the windmills, water, poms, and Botguy.
Inventory Kit		25-Feb-09	Complete	All parts accounted for.
Check FAQ	Dana	25-Feb-09	On-going	If we have any more rules questions, we will ask them.
Initial Designs	ALL	28-Feb-09	Complete	We came up with many good ideas, rejected a few, and we believe that our current designs will be easy to implement



Week 2				
Goals	Responsible	Milestone	Status	Notes
Evaluate Progress	ALL	4-Mar-09	On-going	We're off to a good start, but naturally have work to do.
Begin Models	Nick, Terry	4-Mar-09	Complete	Built a few prototypes of different possible attachments and two different chassis models for the CBC. From these, we chose the best designs to construct.
Study Past Code	Stephen, Andrew	4-Mar-09	Complete	Using techniques from past years - heavy reliance on sensors, and two different sets of codes: one for the seeding round, and one for the competition round.
Study Past Models	Richard, Joshua	4-Mar-09	Complete	This year's models are bigger and better!
Begin Construction				
Bot 1 construction (CBC)	Bot 1 team	7-Mar-09	On-going	Started construction on "wall" to trap poms which may be lined up on the 12" PVC.
Bot 2 construction (Create)	Bot 2 team	7-Mar-09	On-going	Began attaching arm that extends out sideways to collect Botguy and push cups up in a rushing strategy.
Documentation	Dana, Katie	1 to 7-Mar-09	On-going	We are continually updating the project plan and beginning our other writeups far in advance.



Week 3				
Goals	Responsible	Milestone	Status	Notes
Evaluate Progress	ALL	11-Mar-09	On-going	We have come a long way these past two weeks.
Construction				
Bot 1 construction (CBC)	Terry, Nick	11-Mar-09	Complete (now testing)	Our CBC features a claw for grabbing the blue balls and another attachment for the poms. This design, while complete, may undergo future modification.
Bot 2 construction (Create)	Stephen, Alex	11-Mar-09	Complete (now testing)	Our Create will use a sweeping arm to capture Botguy and the turbines. We may come up with other uses for this arm during coding.
Programming				
Setup C	Jesse	14-Mar-09	Complete	C set up! We toyed around with a few
Bot 1 code	Richard, Andrew	14-Mar-09	On-going	Coding begun, but we have not yet tested our CBC on the board.
Bot 2 code	Joshua, Peter, Stephen	14-Mar-09	On-going	Coding partially completed. We have begun testing the Create on the board.
Documentation	Dana, Katie	14-Mar-09	On-going	Period one documentation is complete and submitted to BOPD. On to period two!



Week 4				
Goals	Responsible	Milestone	Status	Notes
Evaluate Progress	ALL	18-Mar-09	On-going	Construction is largely complete - have begun coding and testing.
Construction				
Bot 1 construction (CBC)	Terry, Nick	18-Mar-09	Complete	The CBC bot is now being coded. The planned designs have all been implemented.
Bot 2 construction (Create)	Stephen, Alex	18-Mar-09	Complete	The Create is also complete. It is ready for coding and testing on the board.
Programming				
Bot 1 code (CBC)	Richard, Andrew	21-Mar-09	On-going	The CBC coding has fallen a bit behind schedule. We need to have almost finished by next week at least to get back on top of this project.
Bot 2 code (Create)	Joshua, Peter, Stephen	21-Mar-09	On-going	Stephen could not attend the Saturday meeting, which set back the programming of the Create. However, other members picked up the slack, and we began testing this robot this week!
Integrating Bot 1 & Bot 2				
Mobility	Matthew	21-Mar-09	On-going	The Create has no problem moving around on the board. However, we have yet to test our CBC.
Scoring	Russel	21-Mar-09	On-going	We managed to score points with our Create when we tested it on the board! Now we need to get the CBC scoring.
Documentation	Dana, Katie, Alex	16 to 21-Mar-09	On-going	Have gotten good starts on period two documentation by taking many photos.



Week 5				
Goals	Responsible	Milestone	Status	Notes
Evaluate Progress	ALL	25-Mar-09	On-going	We are continuing to code and test. Integration of the robots has begun.
Construction				
Bot 1 construction (CBC)	Terry, Nick	25-Mar-09	Complete	CBC robot is now complete. Minor repairs are finished. May make minor adjustments to base to increase mobility, but other than that we are done!
Bot 2 construction (Create)	Stephen, Alex	25-Mar-09	Complete	Create attachments are complete and fully functional. This robot is also done! Hooray for progress!
Programming				
Bot 1 code	Richard, Andrew	28-Mar-09	On-going	Still working out some kinks in the coding. The "wall" attachment is difficult to align.
Bot 2 code	Joshua, Peter, Stephen	28-Mar-09	On-going	We have to decide whether to use "dead reckoning" -- code alone -- or sensors to navigate the board.
Integrating Bot 1 & Bot 2				
Mobility	Russel	28-Mar-09	On-going	Some of our bots' attachments make it difficult for them to maneuver on the board. We are recording the problems and looking to the programmers for solutions.
Scoring	Matthew	28-Mar-09	On-going	While we are having moderate success at scoring points, our bots have potential to do better.
Documentation	Dana, Katie, Alex	28-Mar-09	On-going	Period two documentation is completed very early. Onward to period three!



Week 6				
Goals	Responsible	Milestone	Status	Notes
Evaluate Progress	ALL	30-Mar-09	On-going	Made great progress with testing and coding last week!
Programming				
Bot 1 code (CBC)	Richard, Andrew	1-Apr-09	On-going	The programmers are working closely with the testers to make adjustments to the CBC as needed. Only very minor adjustments are needed.
Bot 2 code (Create)	Joshua, Peter, Stephen	1-Apr-09	On-going	The Create code is not as complete as the CBC code. Programmers are working closely with the testers to get the needed data to complete the code.
Integrating Bot 1 & Bot 2				
Mobility	Russel	1-Apr-09	Complete	The robots have no trouble moving around the board. It is easy to manipulate both at the same time.
Scoring	Matthew	1-Apr-09	On-going	We score many points for some runs and none in others. We need to improve our consistency.
Testing				
Bot 1 test	Terry, Nick	4-Apr-09	On-going	Have been taking good notes and making detailed observations of the CBC bot's behavior on the board which have led to coding adjustments.
Bot 2 test	Stephen, Alex	4-Apr-09	On-going	The testing notes for the Create have led to coding adjustments, as well as some last-minute design adjustments.
Documentation	Dana, Katie, Alex	4-Apr-09	On-going	Took the robot's Glamour Shot this week. Plan on using Spring Break to get ahead on third period documentation.



Week 7				
Goals	Responsible	Milestone	Status	Notes
Evaluate Progress	ALL	8-Apr-09	On-going	The tournament is less than two weeks away, and we still have a lot to do.
Programming				
Bot 1 code	Richard, Andrew	8-Apr-09	On-going (nearly complete)	We are still making tune-ups based on the testers' reports, but for all intents and purposes are finished with coding.
Bot 2 code	Joshua, Peter, Stephen	8-Apr-09	On-going (nearly complete)	We are still making tune-ups based on the testers' reports, but for all intents and purposes are finished with coding.
Integrating Bot 1 & Bot 2				
Scoring	Matthew	10-Apr-09	On-going	Scoring consistency is greatly improved, but we still have some steps to take to ensure constant scoring of 100+ points.
Testing				
Bot 1 test	Terry, Nick	11-Apr-09	On-going	The CBC is scoring consistently. However, code modifications can help it score even more.
Bot 2 test	Stephen, Alex	11-Apr-09	On-going	The Create is also scoring. On Saturday, we captured the windmills for the first time. Now, we need to secure Botguy.
Documentation	Dana, Katie, Alex	11-Apr-09	On-going	The session on Monday should see the completion of all period three documentation. We are in good shape!



Week 8				
Goals	Responsible	Milestone	Status	Notes
Evaluate Progress	ALL	13-Apr-09	ALMOST DONE!	Five days until the competition!
Programming				
Bot 1 code (CBC)	Richard, Andrew	13-Apr-09	Complete	The CBC code is finally completed.
Bot 2 code (Create)	Joshua, Peter, Stephen	13-Apr-09	Complete	The Create code is also finally completed.
Integrating Bot 1 & Bot 2				
Scoring		13-Apr-09	Complete	We are consistently achieving over 100 points. Take that, seeding round!
Testing				
Bot 1 test		13-Apr-09	On-going	We are still testing our bots to still see if any last-minute modifications are needed. The CBC is pretty consistent.
Bot 2 test		13-Apr-09	On-going	We are still testing our bots to still see if any last-minute modifications are needed. The Create still sometimes gets stuck on the PVC.
Documentation		13-Apr-09	Complete	Period three documentation completed and submitted. Presentation planned. Display board assembled. We are DONE!

