

Middle School Summer Program Session 1 Tag up June 5, 2015





















- Complete and provide info to state coordinator (excel doc.)
- Student accounts (creating student accounts)
- Team Management (add students to the ZR team roster)
- ZR Evaluation (educator, student, training/pre-post)
- Review Schedule of program
- Review location of materials
- Update on new materials
 - Game CoronaSPHERE_MS_2D
- Questions
 - getmyZRState example





















Questions?



















Student Account Setup



What do I do if my student does not have an email account, and does not have parental permission to create an email account?

- 1.Email zerorobotics@mit.edu with the first name and last name of the student
- 2. The ZR team will set up that student with a "sandbox" account and reply to you with the following details:
 - username: firstname@zerorobotics.mit.edu
 - password: zerorobotics









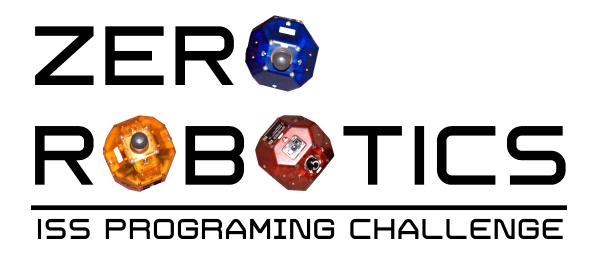












Invite Students to Your Team



















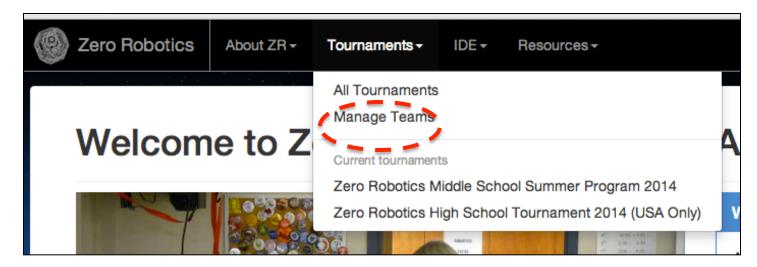
Invite Team Members



To begin:

- Log into the ZR website
- From the "Tournaments" menu select "Manage Teams"























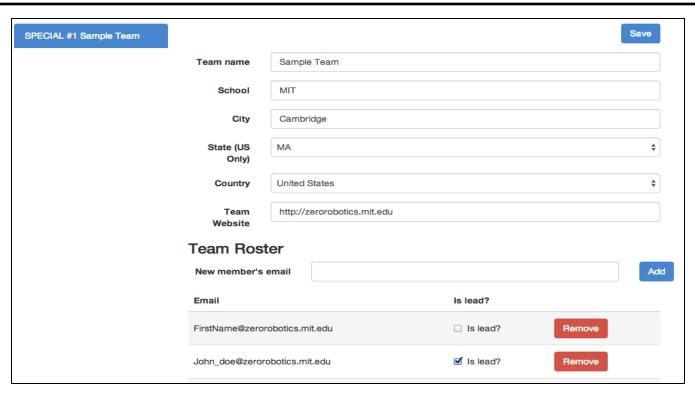
Invite Team Members (cont.)

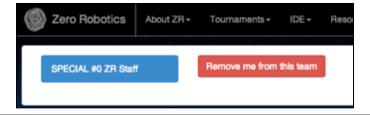


If you are a team lead a window will open with:

- Team information
- Team Roster
 Edit the
 information as
 desired

Not a team lead?
A window will
open with the
Team Name only
like this:

























Invite Team Members (cont.)



Only Team Leads can add new Team Members

To add team members:

- Type in the team member's email used on the ZR site and click "Add"
- The team member will appear in the roster below.
- Uncheck the "is lead?" box for members that are not team leads.



Reminder: Each user added as a Team Member must have already created a ZR account





















Educator

- PRE-surveys must be complete before start of program
- If you did not participate in a group training and have not completed an educator pre-survey, you must complete this survey asap: http://zrindedpre.questionpro.com
- POST-survey must be completed on the last day of program link will be sent in wk 4

Student

- PRE-surveys must be complete on first day of program
- All Students must complete this survey on the first day of the program: http://zrmidstudentpre.questionpro.com
- POST-survey must be completed on the last day of program link will be sent in wk 4













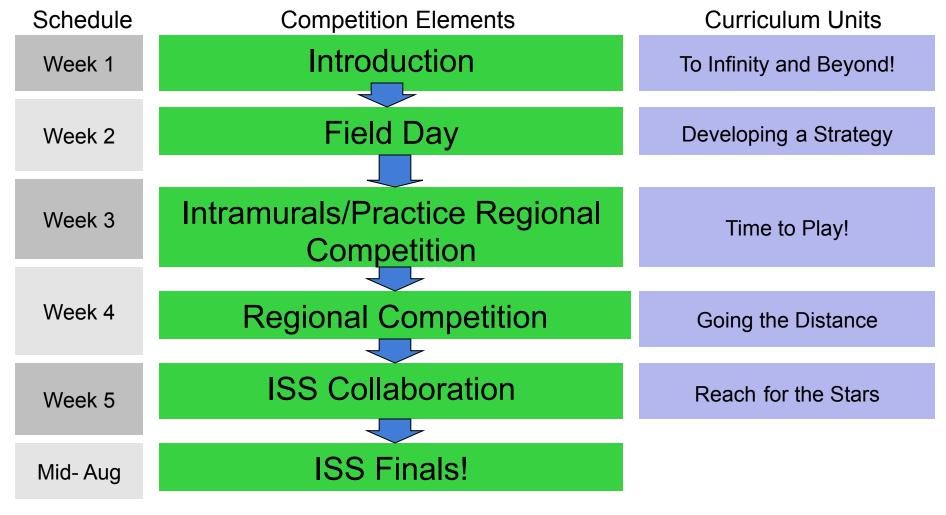






MS Program Structure





Note: Due to ISS availability, the ISS Finals date is not fixed until ~3 weeks before event.



















Schedule 1 Code Submittal dates



Week	Day	Time	Submit Code for:
1			
2			
3	Friday, June 26	5 PM	Practice Regional Competition
4	Friday, July 3	5 PM	Regional Competition
5	Thursday, July 9	5 PM	ISS Competition
ISS Finals Event			



















zerorobotics@mit.edu

ZR Forum

–(ZR website → Resources → Forum)

MIT undergraduate researchers

Your SAN Lead





















- Show Intro video
- Review location of materials
- Update on new materials
 - Game CoronaSPHERE_MS_2D





















Questions?



















getMyZRState



"getMyZRState" retrieves ZR state information (position, velocity, pointing vector, rates) for <u>current satellite</u>

Position
Velocity
Pointing vector
Rotation rates

My_ZR_State				
X: 0.0	Y: 0.0	Z: 0.0		
Vx: 0.0	Vy: 0.0	Vz: 0.0		
Nx: 0.0	Ny: 0.0	Nz: 0.0		
ωx: 0.0	ωy: 0.0	ωz: 0.0		

[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11]



myZRstate[0] = x-coordinate

myZRstate[1] = y-coordinate

myZRstate[2] = z-coordinate



















Procedural Functions



```
loop
  get My ZRState (myZRstate
               step -
  then
         GoToPositionA
  else if
  then
         GoToPositionC
  else
        step -
```















