

Report Guidelines for Contests

- The report for each contest is worth half the marks and should provide detailed development and implementation information to meet contest objectives (15 marks).
- Marking Scheme:
 - The problem definition/objective of the contest. (1 mark)
 - Requirements and constraints
 - Strategy used to motivate the choice of design and winning/completing the contest within the requirements given. (2 marks)
 - Detailed Robot Design and Implementation including:
 - Sensory Design (4 marks)
 - Sensors used, motivation for using them, and how are they used to meet the requirements including functionality.

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- Controller Design, both low-level and high-level control (including architecture and all algorithms developed) (5 marks)
 - Architecture type and design of high-level controller used (adapted from concepts in lectures)
 - Low-level controller
 - All algorithms developed and/or used
 - Code changes and additions for functionality
- Future Recommendations (1 mark)
 - What would you do if you had more time?
 - Would you use different methods or approaches based on the insight you now have?
- Full C++ ROS code (in an appendix). Please do not put code in the text of your report. (2 marks)

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- Contribution of each team member with respect to the tasks of the particular contest (robot design and report). (Towards Participation Marks)
- The contest package folder containing your code will also be submitted alongside the softcopy (PDF version) of your report.
- Your report should be maximum 20 pages, single spaced, font size 12 (not including appendix).
- You will submit everything (report+ contest package folder) **at the beginning of your lab session on contest day on Quercus**. Please have a member of your group upload both your: 1) report (in pdf), and 2) contest package folder containing your code.