Requirements Presentation

Team 7 - New Millennium Innovation
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Requirements 1

1. The machine must be able to write on the whiteboard

   1.1 The robot must not make too much noise while writing

      1.1.1 The robot may make slightly more noise than a whisper so the dB noise output of the system must be below 40 dB

   1.2 Needs controllable marker placement that the user can specify

      1.2.1 The robot must control marker location within an acceptable error of less than 1 cm in either direction

Requirements 2

2.   The machine must be able to erase the whiteboard

2.1   Must be able to erase specific areas not just all of it at once

Requirements 3

3. The machine must be able to scan and save the whiteboard

3.1 Scan must not capture surroundings of the white board.

Requirements 4

4. All functions must be accessible remotely to the client

   4.1 A stable preferably ethernet connection

Requirements 5

5. The power supply for the robot must be capable of doing AC-DC conversion

    5.1 The power supply must plug directly into the outlet

        5.1.1 All connections must be covered for safety purposes

Other Requirements

6. The machine must not get in the way of someone trying to locally access the whiteboard

7. The cost of developing the machine must not exceed $500

8. The machine must compatible with multiple size whiteboards