

Minutes of Meeting (MoM)

1. Major Project – Zeroth Review

Date: 12-11-25

Time: 10:30 A.M. - 11 A.M.

Venue: Conference Hall

Department: Mechatronics Engineering w/s in Robotics

College: SRMIST

2. Attendees

Student Team (3 Members)

- 1) Lalithesh K
- 2) Tejas M K
- 3) Preetham M

3. Panel Members (4 Members)

- 1) Dr. K. Sivanathan
- 2) Dr. Priya Ester B
- 3) Dr. Anitha Kumari S
- 4) Dr. Santhosh Rani

4. Agenda of the Meeting

- Introduction of project team and project idea
- Presentation of problem statement
- Review of proposed objectives
- Review of initial methodology
- Feasibility discussion
- Panel feedback and suggestions
- Initial timeline confirmation

5. Panel Feedback / Suggestions:

- Dr. K. Sivanathan stated that Dani robot would topple easily as we increase the height of the Robot to make it easily visible. He suggested to Design and Fabricate own Robot rather than building on top of Dani Robot.

Response: Designing the entire robot from scratch would divert our focus from the primary objective. Instead, we will explore ways to make the extension lightweight while maintaining stability to prevent toppling, allowing us to dedicate more time to the main goal.

- He also inquired about the feasibility of completing the project.

Response: We mentioned that we are familiar with ROS, have experience working with the ZED camera during our minor project, and have also worked with manipulators. With this background, we are confident that we can complete the work within the stipulated time.

- Dr. Priya Ester B asked why we are not considering a legged robot, as it would enable the system to climb stairs and avoid being restricted to a single floor.

Response: Legged robots require complex dynamics and control algorithms, and the technology is still largely confined to research and laboratory environments. Working on such a system would not be feasible within the given timeframe, especially while trying to achieve our primary objective.

- Dr. Santhosh Rani inquired why dynamic obstacle avoidance was not included instead of simply causing the robot to stall.

Response: Our primary goal is to navigate, plan, and deliver the item rather than focusing solely on obstacle avoidance. During peak hours, the number of dynamic obstacles the robot encounters can be very high, which significantly increases the complexity.

- Dr. Anitha Kumari S asked about the payload capacity that the robot can carry.

Response: The payload has not yet been finalized, but it will be relatively low, intended for carrying lightweight items such as papers and similar materials.