

ME 420 – MECHANICAL ENGINEERING RESEARCH PROJECT

Registration number : E/17/285

Project Title : Optimizing Cubic Swarm Robot Mechanisms for Efficient Coordination and Task Execution

Outcomes of the project:

1. Find the best mechanism to Cubic Swarm Robot
2. Enhanced Swarm Coordination
3. Find the best applications where it can apply cubic swarm robots

Milestones of the project :

Project timeline tagged with the milestones:

Project timeline	Jul 31 - Aug 6	Aug 7 - Aug 13	Aug 14 - Aug 20	Aug 21 - Aug 27	Aug 28 - Sept 3	Sept 4 - Sept 10	Sept 11 - Sept 17	Sept 18 - Sept 24	Sept 25 - Oct 1	Oct 2 - Oct 8	Oct 9 - Oct 15	Oct 16 - Oct 22	Oct 23 - Oct 29	Oct 30 - Nov 5	Nov 6 - Nov 12	Nov 13 - Nov 19
Literature review regarding best mechanism for cubic swarm robots																
Design the most suitable mechanism for that robot																
Finalize the designing part of the robot and build prototype																
Test the prototype and take the important data																
Develop mathematical model to control that robot using above collected data																
Finalize the design and best suitable mathematical model for cubic swarm robot																
	Jul 31 - Aug 6	Aug 7 - Aug 13	Aug 14 - Aug 20	Aug 21 - Aug 27	Aug 28 - Sept 3	Sept 4 - Sept 10	Sept 11 - Sept 17	Sept 18 - Sept 24	Sept 25 - Oct 1	Oct 2 - Oct 8	Oct 9 - Oct 15	Oct 16 - Oct 22	Oct 23 - Oct 29	Oct 30 - Nov 5	Nov 6 - Nov 12	Nov 13 - Nov 19

Date :2023/09/15

Name of the Student – RATHNAYAKA R.M.A.K.

Signature of the student :



Comments :

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Name of the supervisor -Prof. D.A.A.C. RATNAWEERA

Signature.....

Name of the CO. Supervisor -Dr.ISURU NAWINNA

Signature.....