TO WHOM SO EVER IT MAY CONCERN

Date: 02nd December, 2025

Aaryamann approached me a few months ago for presenting and seeking guidance for his project on Radiowave Operated Quadruped Spider Robot which he had been working from the past one year approximately.

As this robot which he had developed was to be used for the search and rescue operations during any natural or man-made disaster; which was one of the objectives of our association namely the Fire and Security Association Of Inida (FSAI); I felt that it would be of great interest to the committee and Aryamann himself to discuss in detail on his project and thus he presented his project to the entire working committee of the association which comprised of people representing the Fire Safety Services, Disaster Managment Cell of the Local Municipality , Home guards to name a few.

During Aaryamann's observership this summer,he showed great tenacity, maturity and intent to develop and improvise on his project with feedback from the people working in this field at ground level.

It was truly impressive that at just 16 years of age, Aaryamann demonstrates technical maturity and foresight well beyond his years through this innovation. His robotic prototype, designed for critical search and rescue operation in disaster-struck or hazardous environments, exemplifies functional design, and humanitarian intent.

The robot's spider-inspired quadruped build, equipped with real-time audio visual feedback systems, night vision capabilities, and a lightweight yet robust structure, reflects a deep understanding of operational constraints in emergency scenarios. The robot had advanced smoke detection module that significantly enhances the robot's utility in fire-prone or gas-leak environments-conditions common to confined spaces in infrastructure disasters.

We at FSAI see a great potential for Aaryamann's innovation within situations where human entry is either delayed or impossible. The robot's design capacity to access tight spaces, stream live visual data, and detect harmful gases or smoke could serve as an invaluable asset to our firefighting and emergency response units.

We would encourage Aaryamann to continue improving his creation with the various use case which were discussed which would make his innovation a very big success and useful tool for rescue operations world-wide.

Aaryamann is a brilliant example of the young technologists, driven not only by invention but by intention. FSAI and I offer him our highest recommendation for his pursuits both as a mentor and as a witness to the immense value his work could bring to civilian safety initiatives.

Kinnari Menon
FSAI Mumbai Chapter Secretary