



MINE DETECTION DRONE

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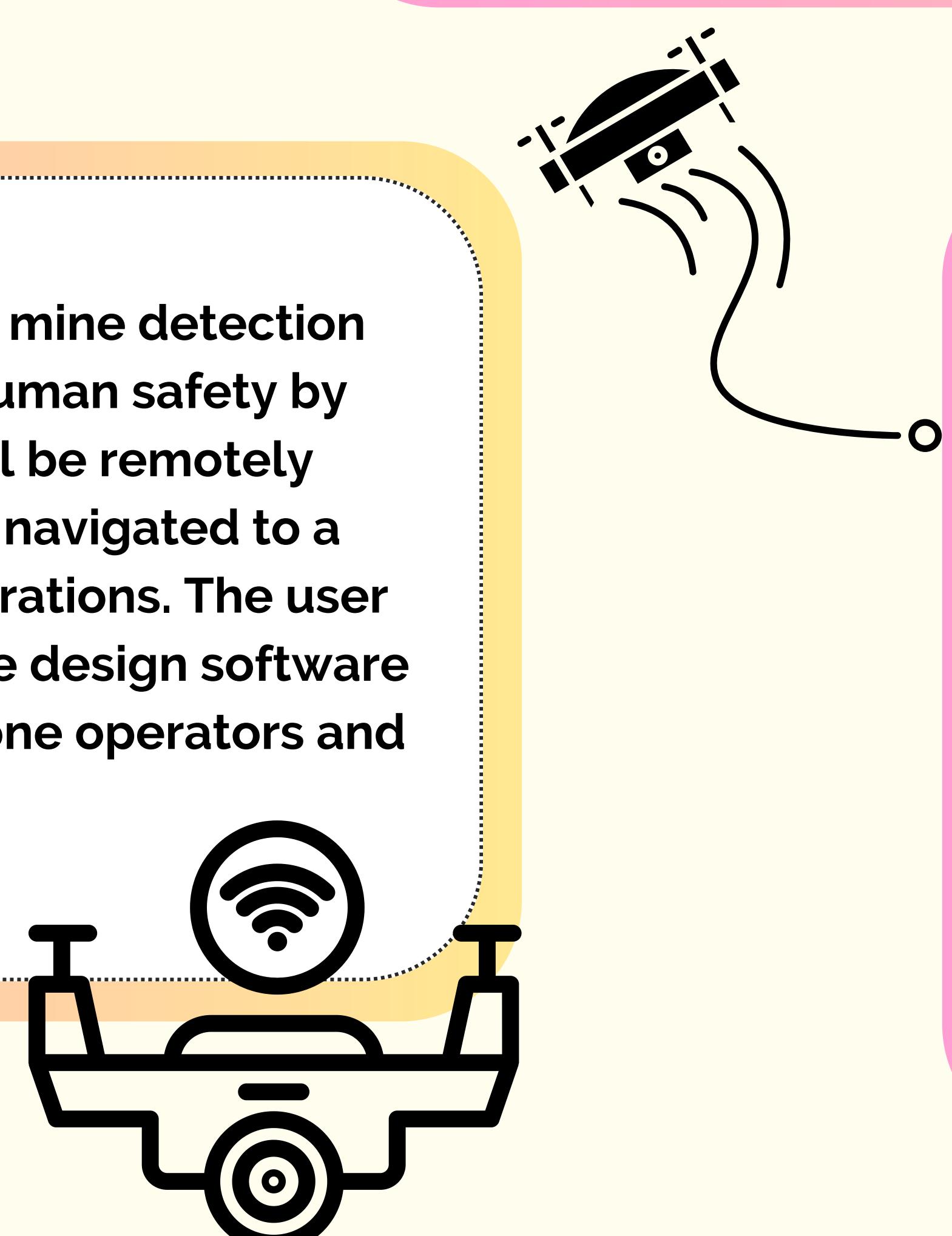
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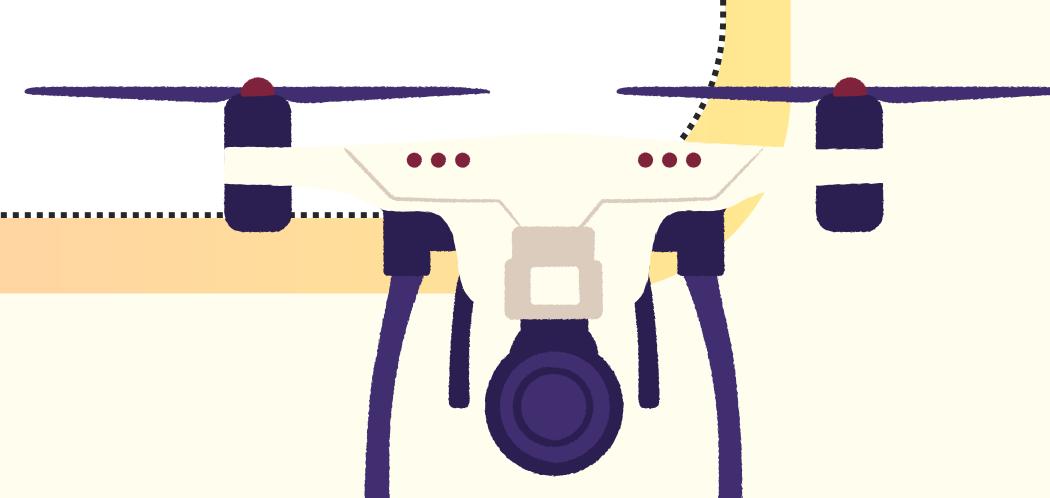
ABSTRACT

Project involves the development of a mine detection aerial vehicle designed to enhance human safety by detecting landmines. The drone will be remotely launched from a secure location and navigated to a designated area for mine scanning operations. The user interface is developed using appropriate design software to facilitate interaction between the drone operators and the drone.



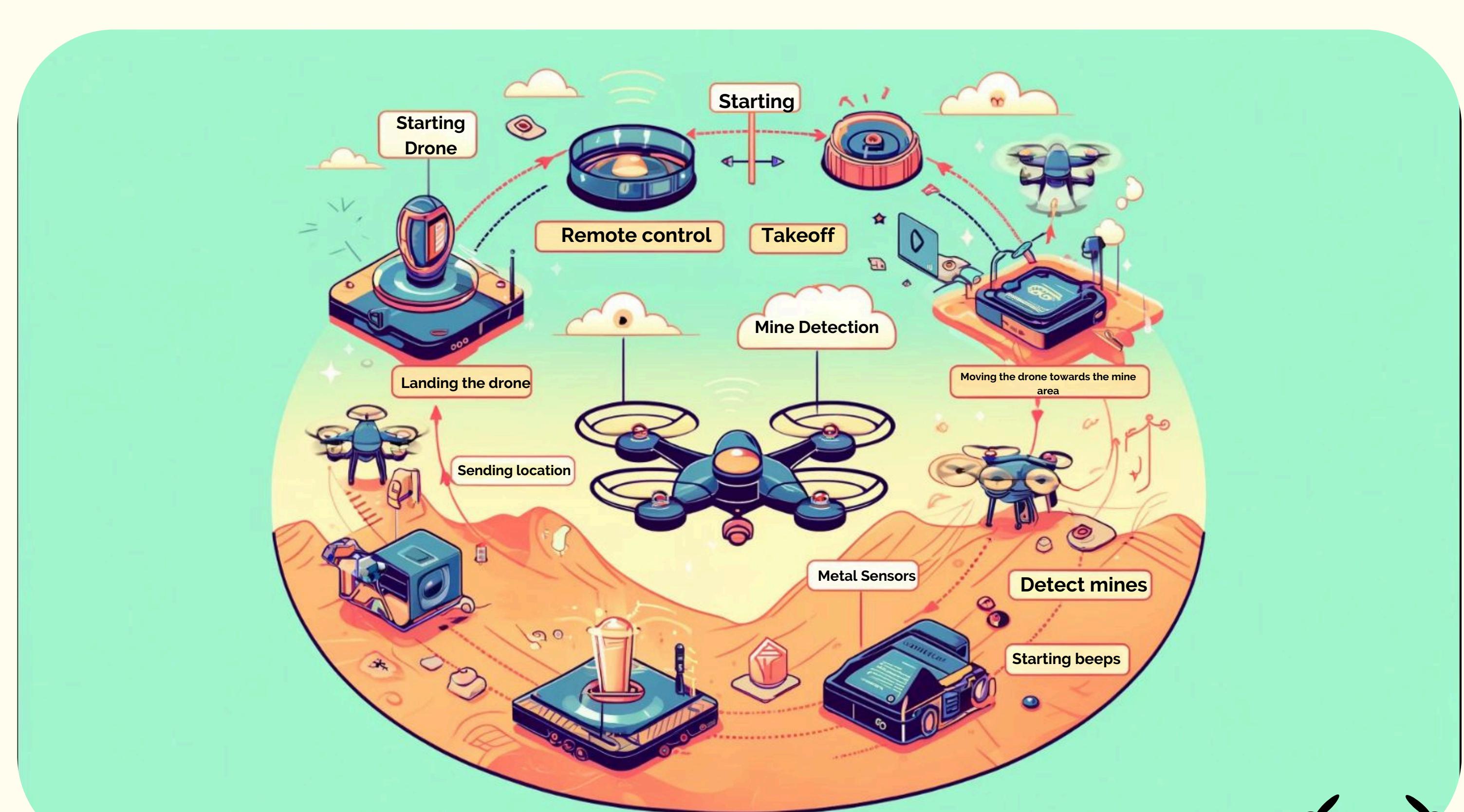
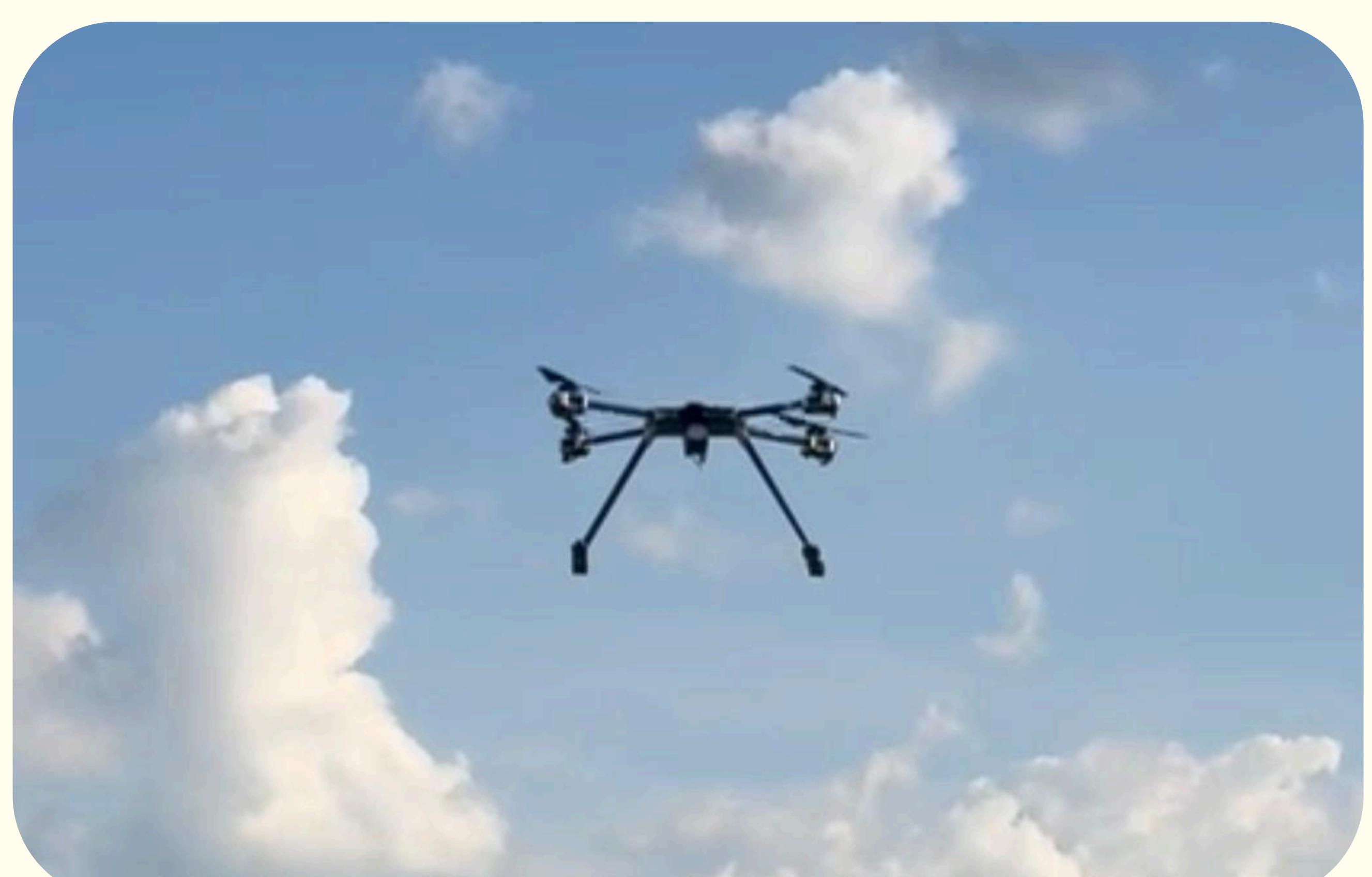
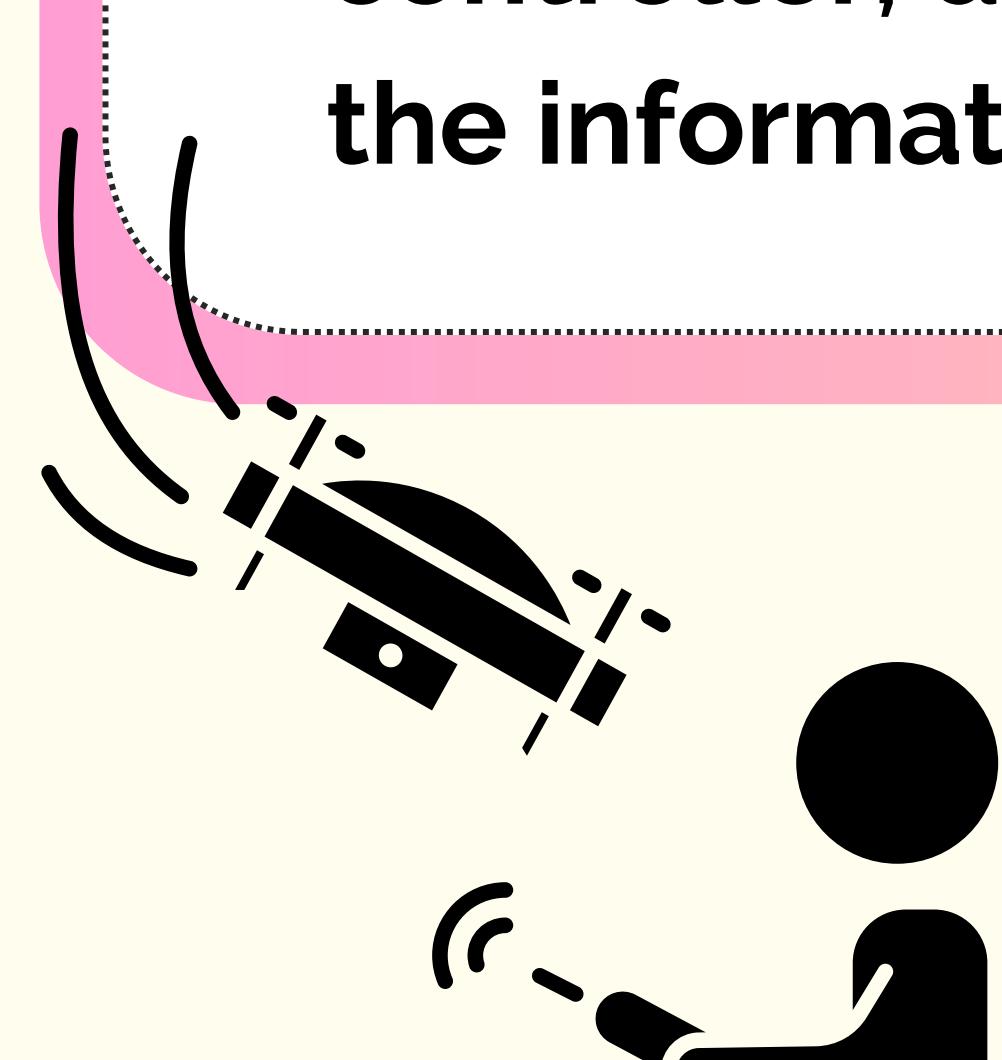
INTRODUCTION

This project aims to develop a rotary-wing unmanned aerial vehicle equipped with advanced mine detection sensors, maintaining a safe altitude to detect mines without triggering them. The focus is on stable flight, seamless integration of detection technology, robust GPS mapping, and an intuitive user interface for efficient control. This approach seeks to revolutionize mine detection, enhancing safety and efficiency in mine-affected areas, by leveraging drones to provide a reliable and safe solution in mine-affected areas.

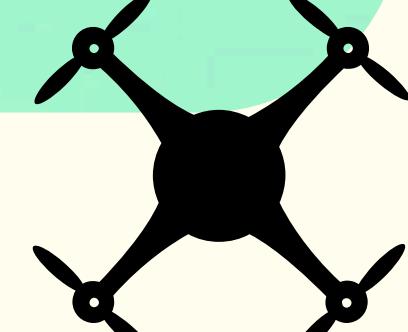


RESULTS & CONCLUSION

Coding was done using Arduino for the flight control software, communication between the drone and the controller, distance and mine sensor. Transmitting the information received from the drone to the UI.



Activity Diagram Image



Computer Engineering Team



Software Engineering Team



Mechanical Engineering Team



Team Members