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## Medicaile (Medwings)

**Mr. Aman Abdulhaq Shaikh<sup>1</sup>, Mr. Aaditya Ravindra Belwalkar<sup>2</sup>, Mr. Rahul Vilas Kanojiya<sup>3</sup>, Mr. Mohit Mahendra Raut<sup>4</sup>, Mr. Vishal Kandalgaonkar<sup>5</sup>**

<sup>1,2,3,4</sup> Student Mechanical Engineering, Pravin Patil College of Diploma engineering and technology,

<sup>5</sup> Guide, Mechanical Engineering, Pravin Patil College of Diploma engineering and technology

<sup>1</sup>[Amanshaikh030706@gmail.com](mailto:Amanshaikh030706@gmail.com), <sup>2</sup>[aadityabelwalkar@gmail.com](mailto:aadityabelwalkar@gmail.com), <sup>3</sup>[RahulKanojiya3719@gmail.com](mailto:RahulKanojiya3719@gmail.com), <sup>4</sup>[Mohtiraut749@gmail.com](mailto:Mohtiraut749@gmail.com),

<sup>5</sup>[prpvishalmeb@gmail.com](mailto:prpvishalmeb@gmail.com)

### ABSTRACT

Medical drones are revolutionizing healthcare delivery in this we have given primary focus on transportation of organs (liver, heart, kidney) & bloods to hospitals by tackling key challenges such as accessibility, efficiency, and swift responses during emergencies. These unmanned aerial vehicles (UAVs) are designed to carry medical essentials like vaccines, medications, diagnostic samples, and life-saving equipment to remote or underserved locations. Their capacity to avoid traffic and overcome difficult terrains ensures prompt delivery, minimizing delays that could affect patient outcomes. Furthermore, drones are becoming more prevalent in catastrophe situations, relief efforts, where conventional logistics are disrupted, enabling the rapid provision of critical medical assistance. These medical drones can be used in emergencies wherever required without any delay like providing Assistance in pandemic, providing first aid in disaster etc.

### 1. INTRODUCTION

Drone Technology has become more popular in recent years as a groundbreaking innovation across various industries, and one of the most promising and significant applications is in the medical field. Medical drones—also known as unmanned aerial vehicles (UAVs)—are revolutionizing how healthcare services are delivered, especially in areas where speed, accessibility, and efficiency are critical. These drones are capable of transporting vital medical supplies such as blood, vaccines, medications, and diagnostic samples over long distances, difficult terrains, and congested urban centers. Their ability to operate autonomously, bypass traffic, and reach remote or disaster-stricken areas makes them a vital instrument for epidemic control, emergency response and rural healthcare.

### 2. METHODOLOGY

After the dispatching the package for deliver we can attach it to the drone the pilot can easily control and monitor it through the screen as it reaches near the delivery site the pilot can land it at safe place and the person can easily take the package and perform further process.

### 3. WORKING

Firstly we have to ensure the safe launch site next we have to examine the drone such as to check its battery, working of components appropriately. Once everything has been inspected, take off and then increase the throttle slowly and steadily monitor all the components working properly maintain a proper height. Finally the drone is near the specified location slowly decrease the throttle and land at a safe landing site.

### 4. PROBLEM STATEMENT

Despite their potential benefits, the adoption of normal drones presents several challenges and risks. These include regulatory and legal hurdles, such as limitations in adverse weather conditions, the high cost of drone technology, maintenance, and training can be a barrier, especially in resource-limited areas the risk of technical failures.

### 5. PROPOSED SOLUTION

Here's proposed solution to effectively integrate drones into medical technology:- Emergency response Organ & Blood transport Increase in payload capacity weather resistance (can be used in light monsoon weather) providing battery stations Costing. This system would offer substantial benefits. In

emergencies, drones could drastically reduce response times by delivering AEDs or first-aid kits before paramedics arrive. In public health rises, such as pandemics, drones can distribute test kits and protective equipment without risking human exposure. In rural or hard-to-reach regions, they can provide regular medicine deliveries quickly and reliably.

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## 6. KEY FEATURES / INNOVATIONS

Increase in payload capacity ( normal drone is not capable to carry the amount of load which our model can). Providing battery stations ( we can replace the battery as fast as we can). Costing is very less ( as compared to available drones in market our model costing is very much less).

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## 7. IMPACT OF SOLUTION

Our model can provide emergency services to society ( for eg. transportation of organs & bloods etc. in hospitals , medicines delivery at home ) industries can easily manufacture our model and can do mass production at low cost their will be no harmful emissions in environment therefore it is environment friendly.

### *FLOW CHART OF MÉDICAILE*



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## 8. PICTURES OF MÉDICAILE



8.1



8.2



8.3

8.4



8.5

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## IX. CONCLUSION

In conclusion, medical drones represent a transformative technology with the potential to revolutionize numerous fields, particularly in medical applications. Their ability to deliver timely, precise, and efficient solutions in areas such as medical delivery, emergency response, and environmental monitoring showcases their versatility and value. The integration of drones into medical and other critical fields is poised to bring about significant advancements, improving efficiency, safety, and accessibility. As technology progresses, we can expect even more groundbreaking applications and innovations in the future.

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