



# Jetpacks

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Wendell Moore's neighbour's son describes learning to fly the Rocket Belt like "trying to balance while standing on a beach ball on the ocean".

# Overview

- History
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- Citations



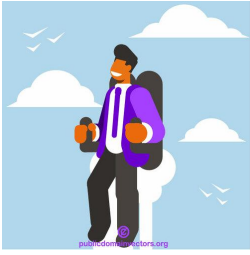
# History

- Alexander Andreev in 1919(Russia)
- Himmelsturmer(Sky Stormer)



Alexander Andreev came up with idea of an engine in a backpack

Used to jump rivers in WWII(1950)



Used to transport soldiers  
across difficult terrain

## History

- Rocket Belt (Wendell More)
- Jet engine (1965)(5 min flight time)

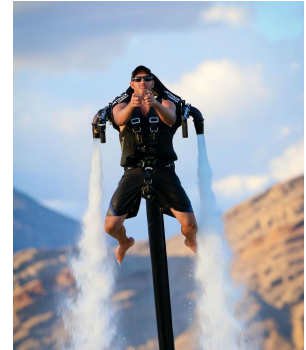
Rocket Belt was hard to learn to fly and even today, only a handful of people have flown the device.

Williams developed the WR19, a small-scale turbo jet engine with a thrust of 1,900 newtons to replace the hydrogen-peroxide rocket

## History

- Jetpack Aviation( micro gas turbines)
- JetLev ( a water propelled jet pack)

For Fun



The newer Jetlev R200x is a water-powered jetpack connected, by a hose, to a Jet Ski. More than 1,000 gallons of water a minute pump through the hose; the cascade shoots out two nozzles attached to the backpack, sending the rider into the air.  
Can be rented for \$300-500 per hour.

## Plan and Implementation

- People that live in cities
- Commute to work
- Military operations
- Sea travel



## Disadvantages

- Landing can provoke spinal injuries.
- Limited operating time.
- Expensive (\$300,000)
- Short duration of flight
- A high expense of the peroxide propellant.
- Lasts about 5-45 minutes.



These disadvantages make it harder to make these a possibility to use for real life situations

If we could improve and make the disadvantages not occur when using Jet Packs then we could buy more for people to use, and not have to go in airports and planes.

## Benefits

- Get used in the military
- It increases website traffic
- It provides excellent security
- It offers centralization site management
- Skip Traffic
- Less Airports for air travel
- Allows vertical takeoff and landing



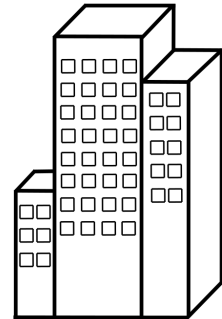
The benefits to Jet Packs could change lives and make things move a lot smoother, and make it easier to navigate from place to place.

They can be used in emergency situations and even to help military forces travel across places quicker and smoother.

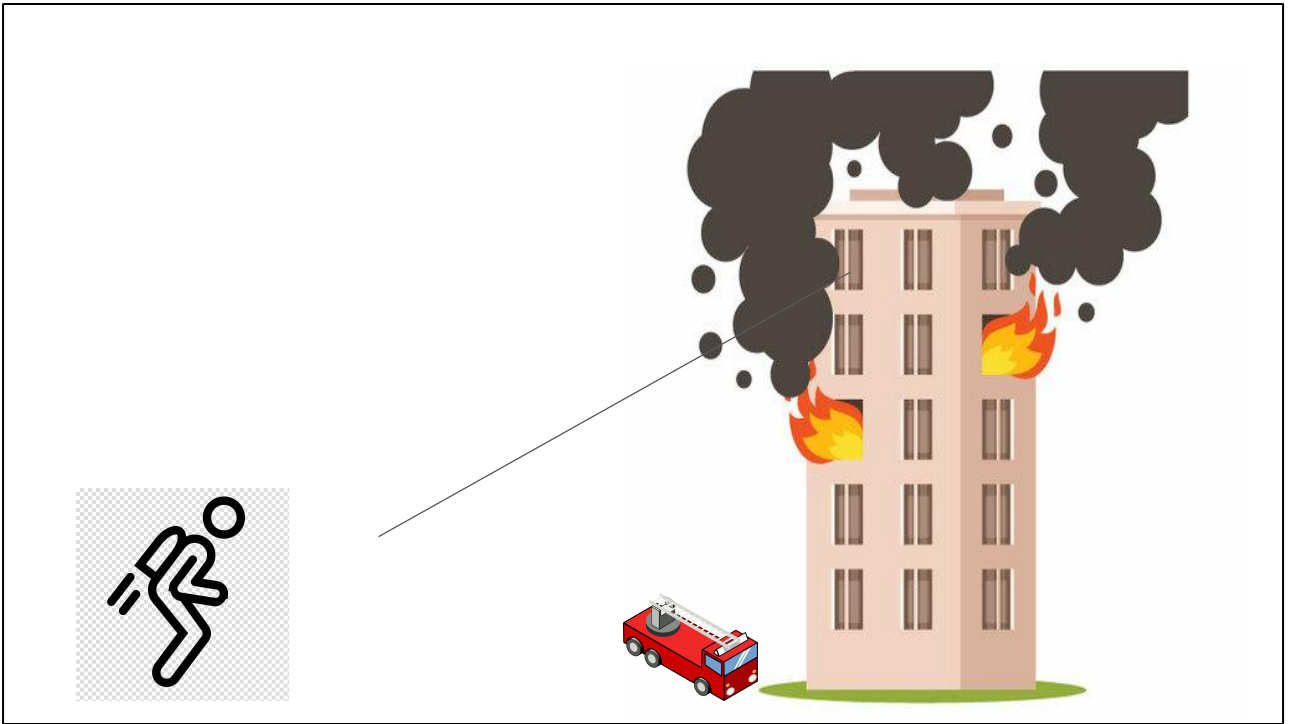


# Uses of a Jet Pack!!!

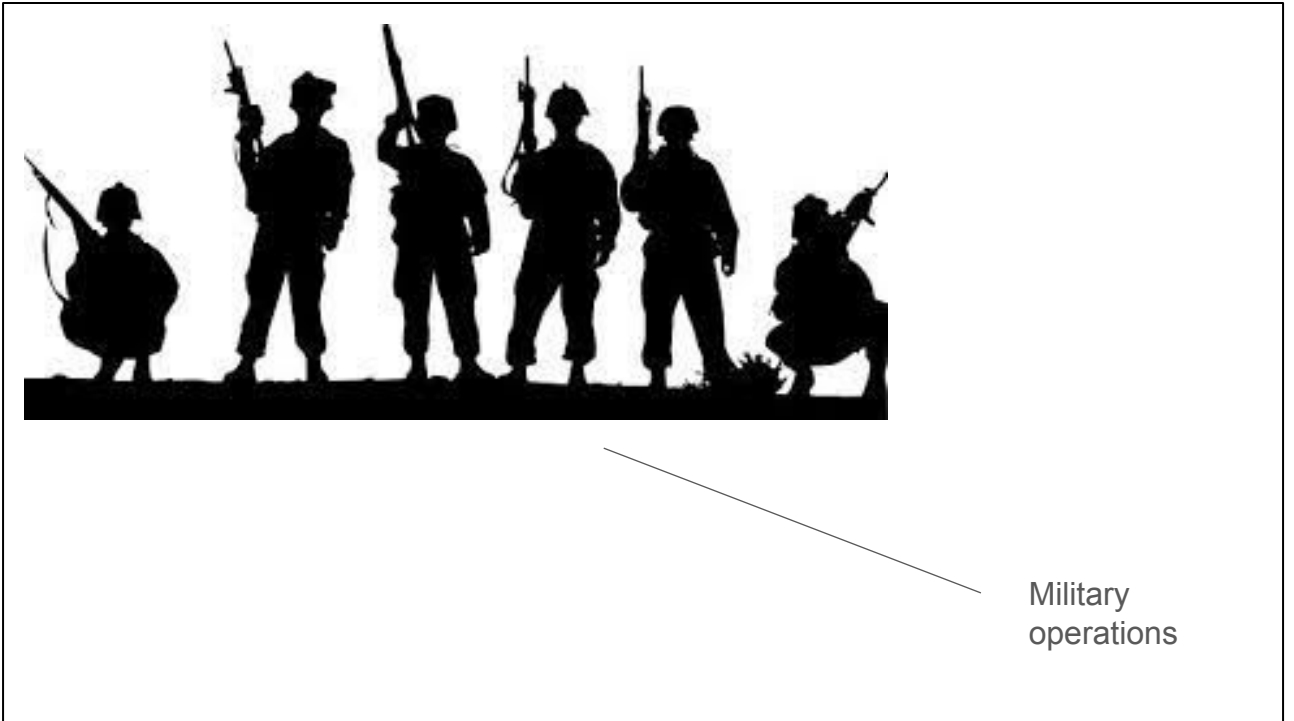
Commute to work or  
events



Good for commuting to work.  
traffic/distance



- The jet pack could be of great value to the fire department as it can reach high buildings without going directly through the building for medical emergencies or fires.



Military  
operations

Military can use them on missions where they need to cross a distance fast and have access to air and ground quickly.



# Summary



- The jet pack provides a convenient way to travel and reach places over difficult terrain or up on high buildings. Regardless of the cost or slight dangers, the future development of jet packs could have a critical effect on the lives of billions of people.

# Citations

[History of Jet Packs](#)

[Timeline of Jet Packs](#)

[Advantages of Jet Packs](#)