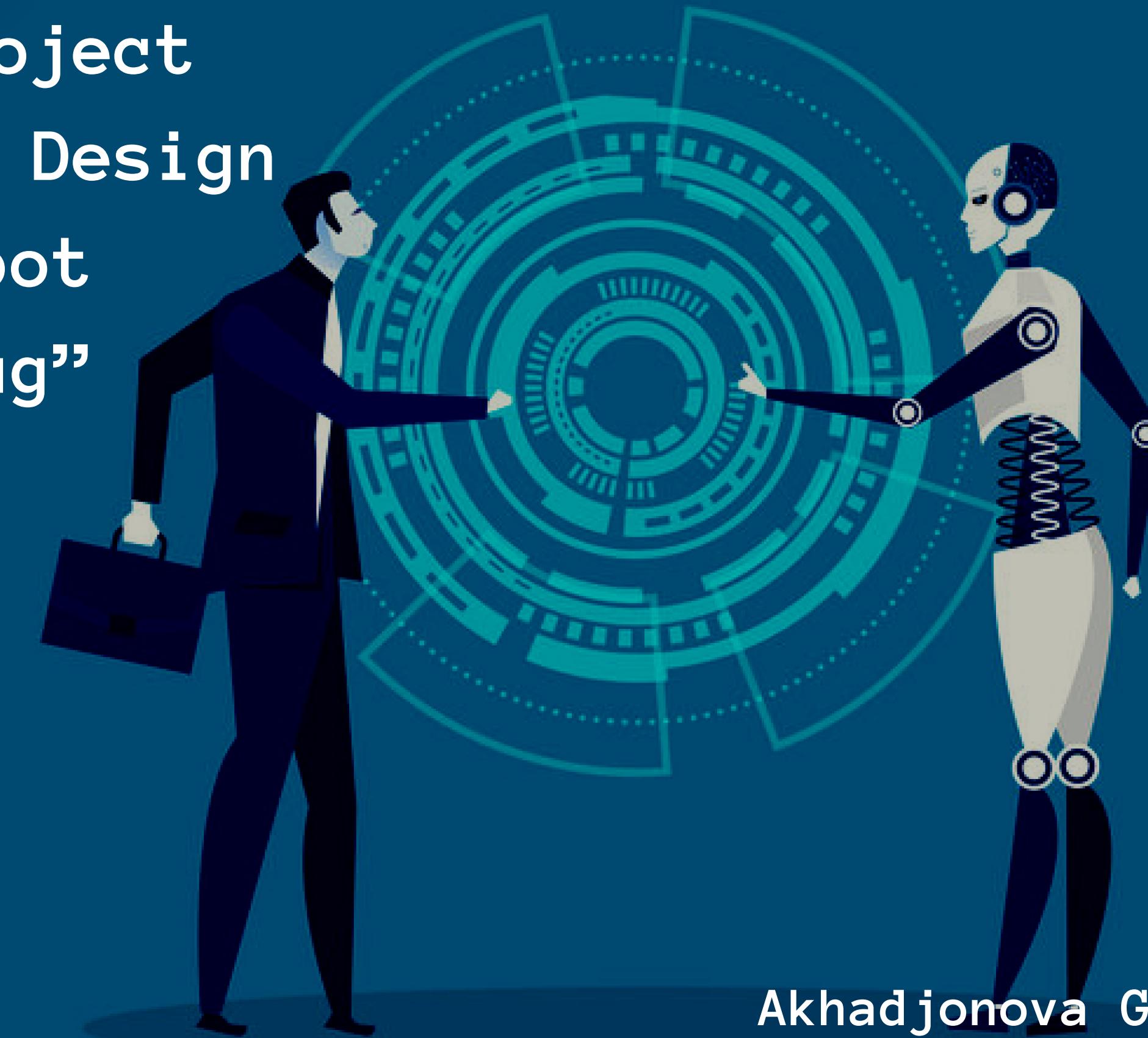


Academic English 4

Final Project Conceptual Design of robot “Mr. Bug”



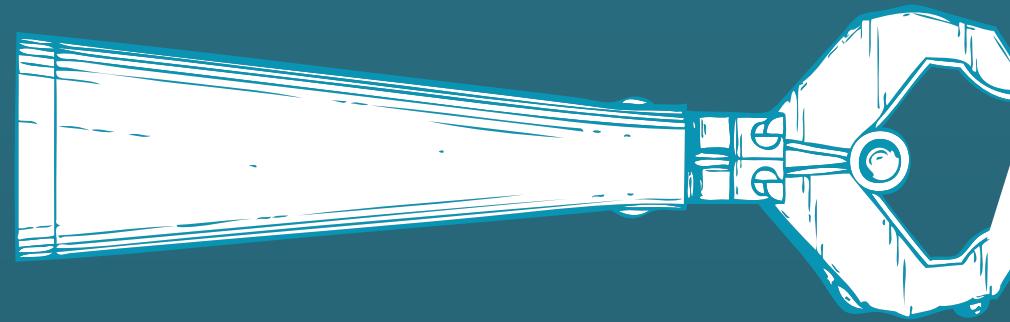
Link for video:
<https://youtu.be/2kCzuFJveU8>

Prepared by:

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- Global issues and a role of "Mr.Bug"
- How "Mr.Bug" works
- Potential problems of "Mr.Bug" implementation
- Conclusion

Gulkhayo Akhadjonova

U1910009



is speaking

"Global issues and a role of Mr.Bug"

Crime Healthcare



in
Traffic Roads

Road traffic offense

A traffic offense is generally considered a crime if it's punishable by imprisonment



1.35 million
people die
each year

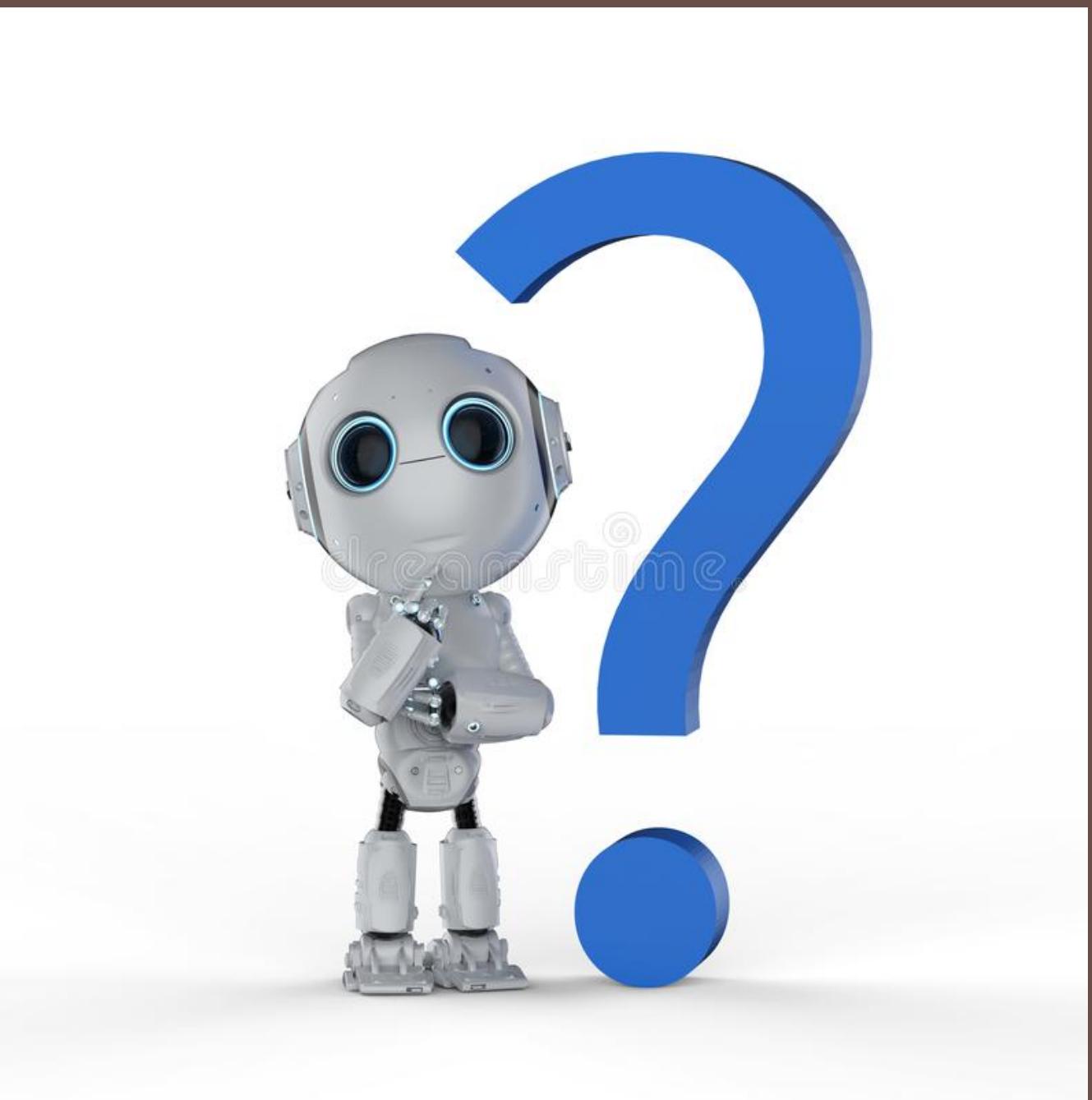


20–50 million
non-fatal
injuries



more than 50% deaths
occur among
pedestrians,
cyclists, and
motorcyclists

WHY?



Violation of traffic rules



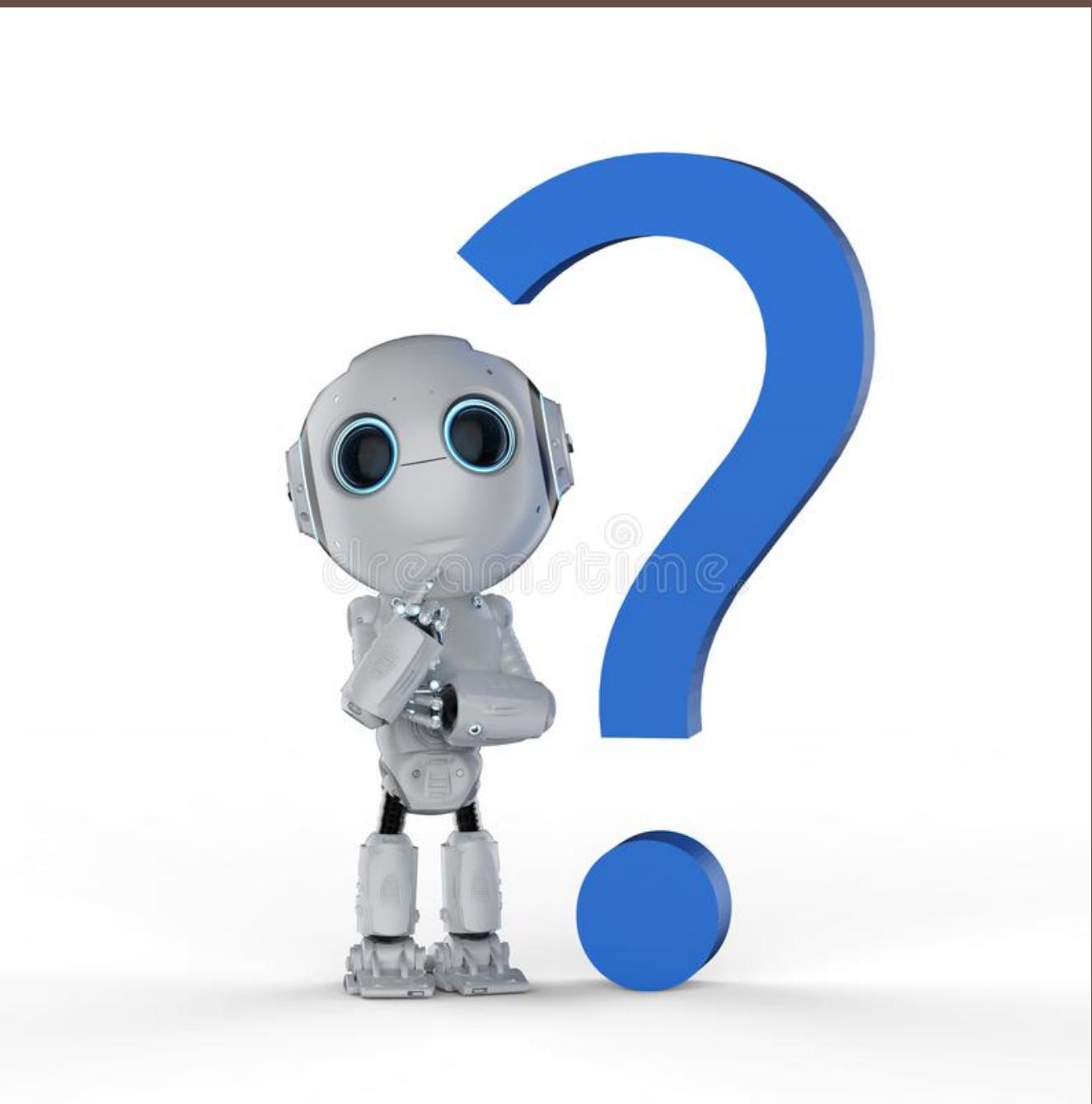
Sometimes people cause traffic collisions by violating traffic rules and regulations

Late arrival of ambulance



Sometimes late emergency calls can lead to human death

HOW?



Mr. Bug



Elina Abd rashitova

U1910025



is speaking

"How Mr. Bug works"

FUNCTIONALITIES OF MR.BUG

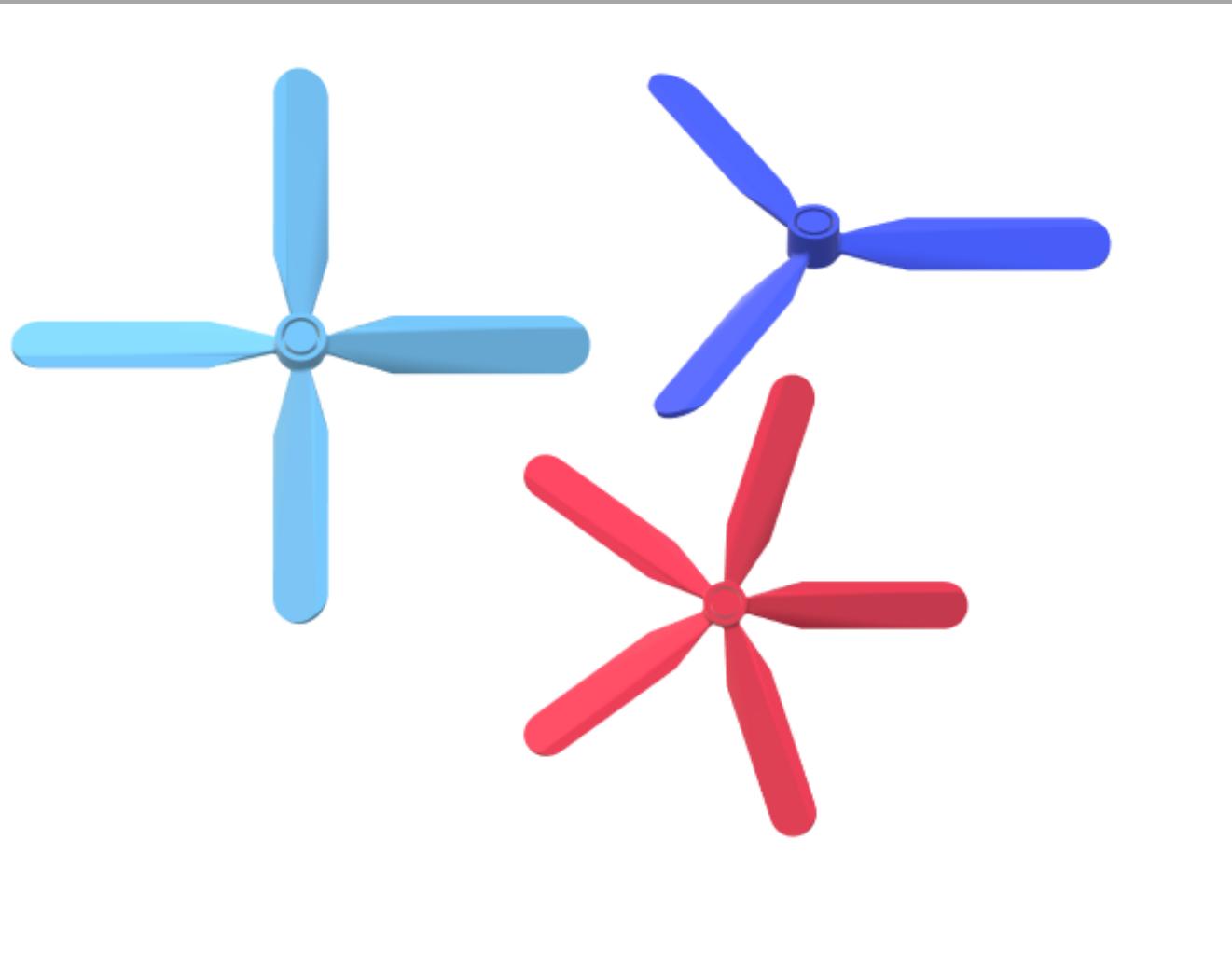


Features

- Cameras 180 x2
- Surveillance camera
- Size
- Crimes and emergencies
- Messages and location
- Self protection
- Wi-Fi



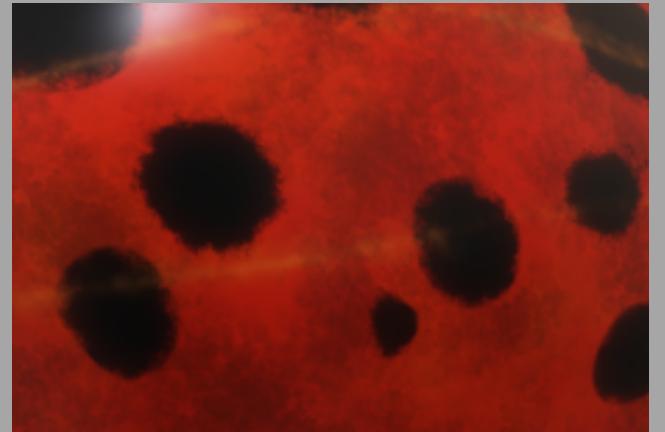
Materials



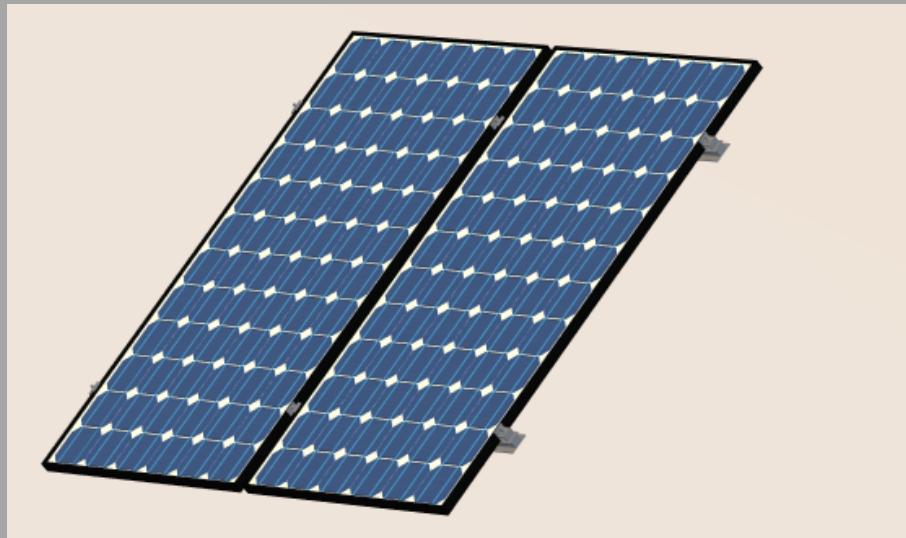
Propeller

- 5 blades
- Carbon fiber reinforced plastic
- Reasonable price

Materials



=



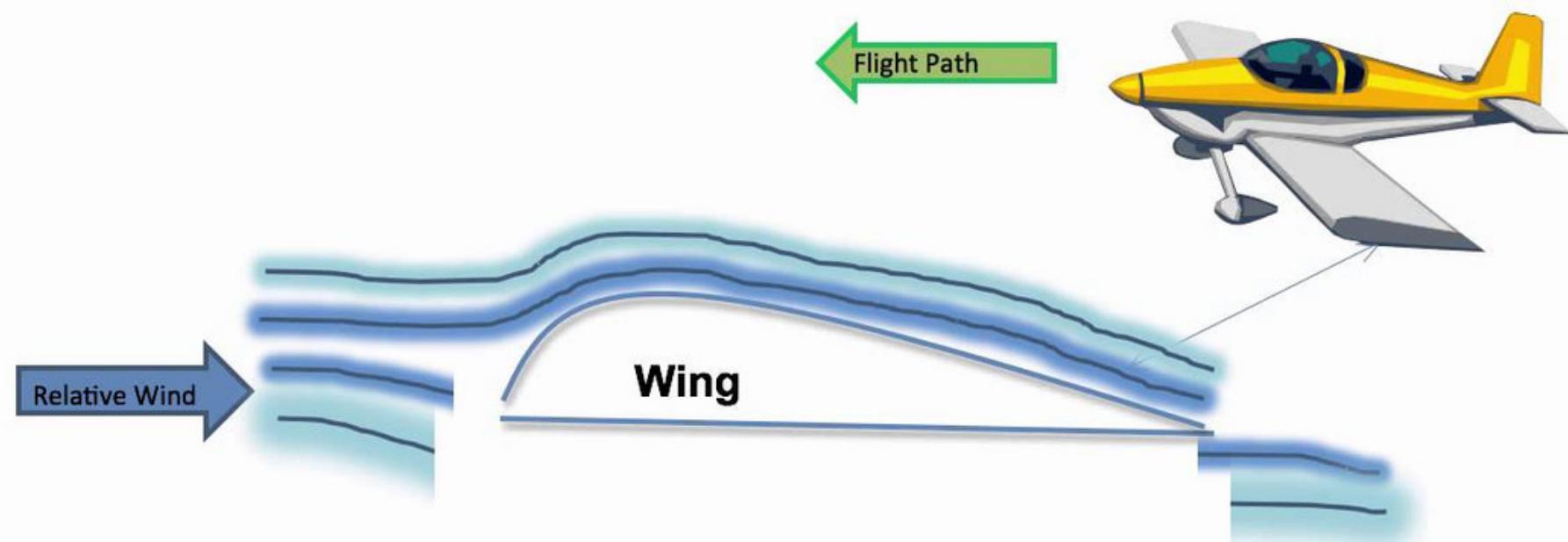
Body - Solar panel

- Battery
- Eco solution

Materials

Basic Aerodynamics

Airfoil - Any surface, such as a wing, that provides aerodynamic force when it interacts with a moving stream of air.



Example of aerodynamics

- Aerodynamic form



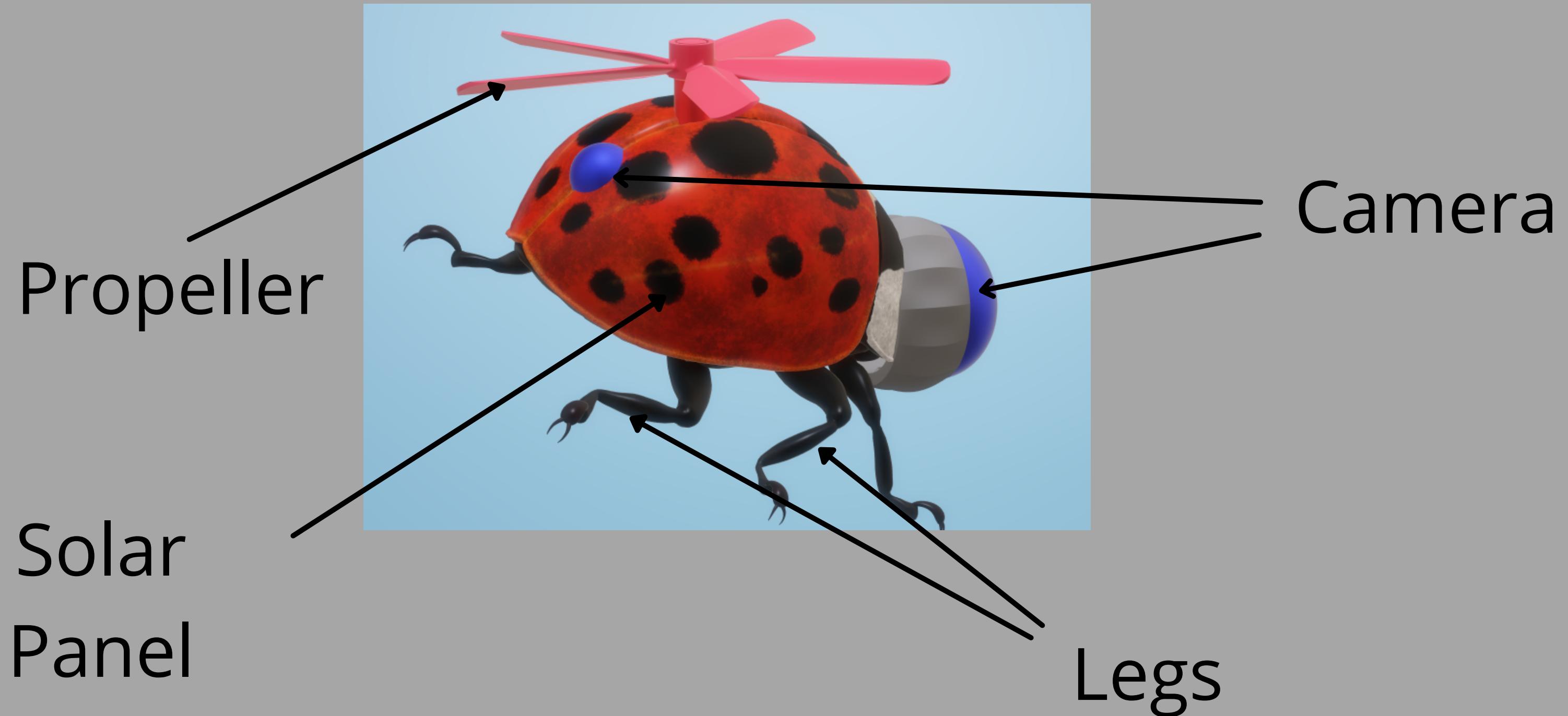
Materials



Legs

- If propeller is broken

View on Mr. Bug



Dilnozakhon Mirsaidova

U1910042



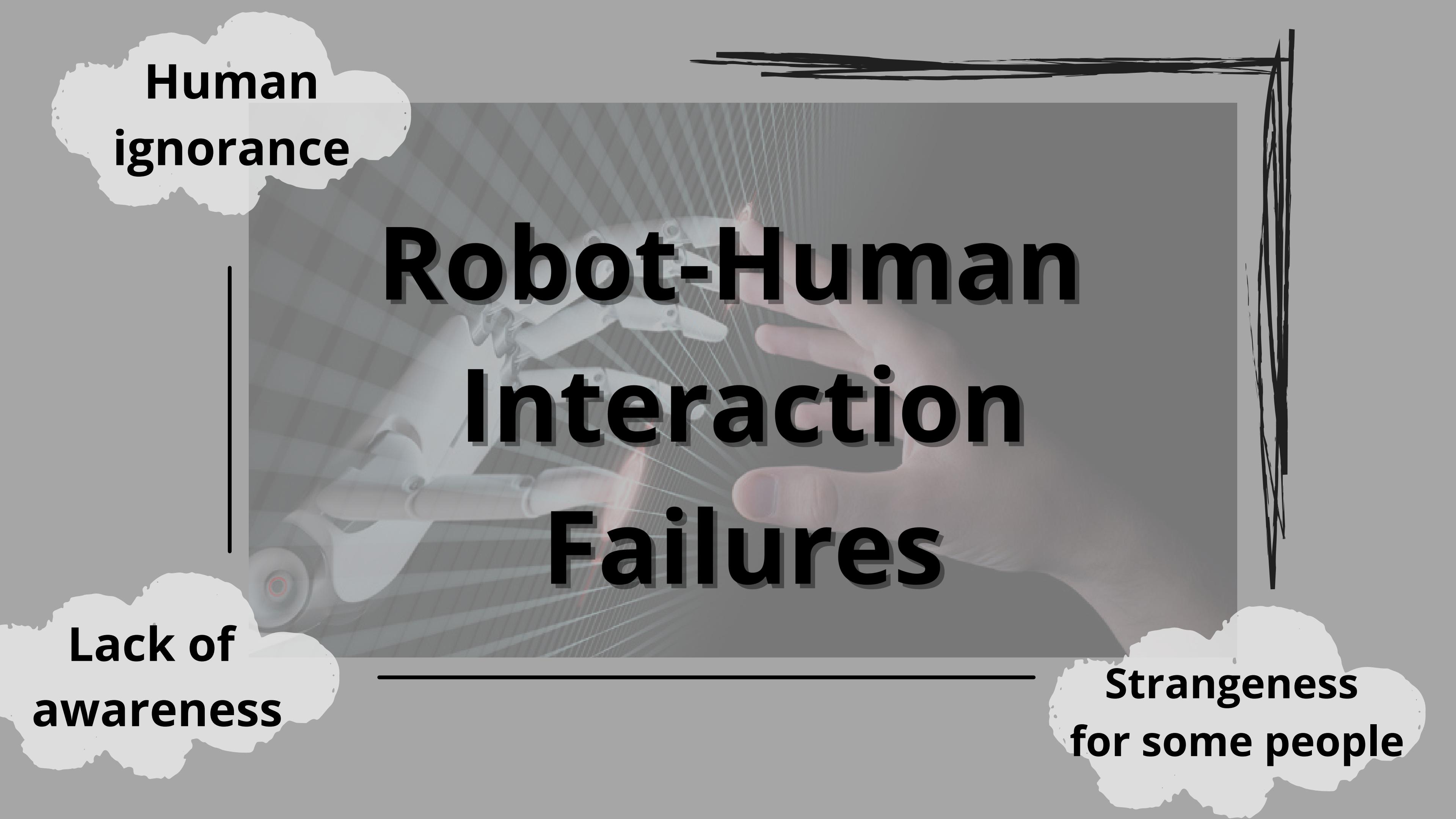
is speaking

Potential problems of "Mr.Bug" implementation



Problems

**that might happen
while using robot Mr Bug**

A grayscale photograph showing a close-up of a human hand reaching towards a robotic arm. The robotic arm has a white, articulated structure with a circular sensor or camera at its end effector. The background is dark and textured.

**Human
ignorance**

Robot-Human Interaction Failures

**Lack of
awareness**

**Strangeness
for some people**

Impact of Natural Phenomena

wind

drizzle

storm

fog

rain

snowfall

tornado

Annotation:

Main Functions:

Trace

Record

Report

Advantages:

Makes immediately emergency call

Prevent traffic accidents

Flexible size

Eco-friendly

Full-vision camera

Disadvantages:

*Robot-human interaction
problems*

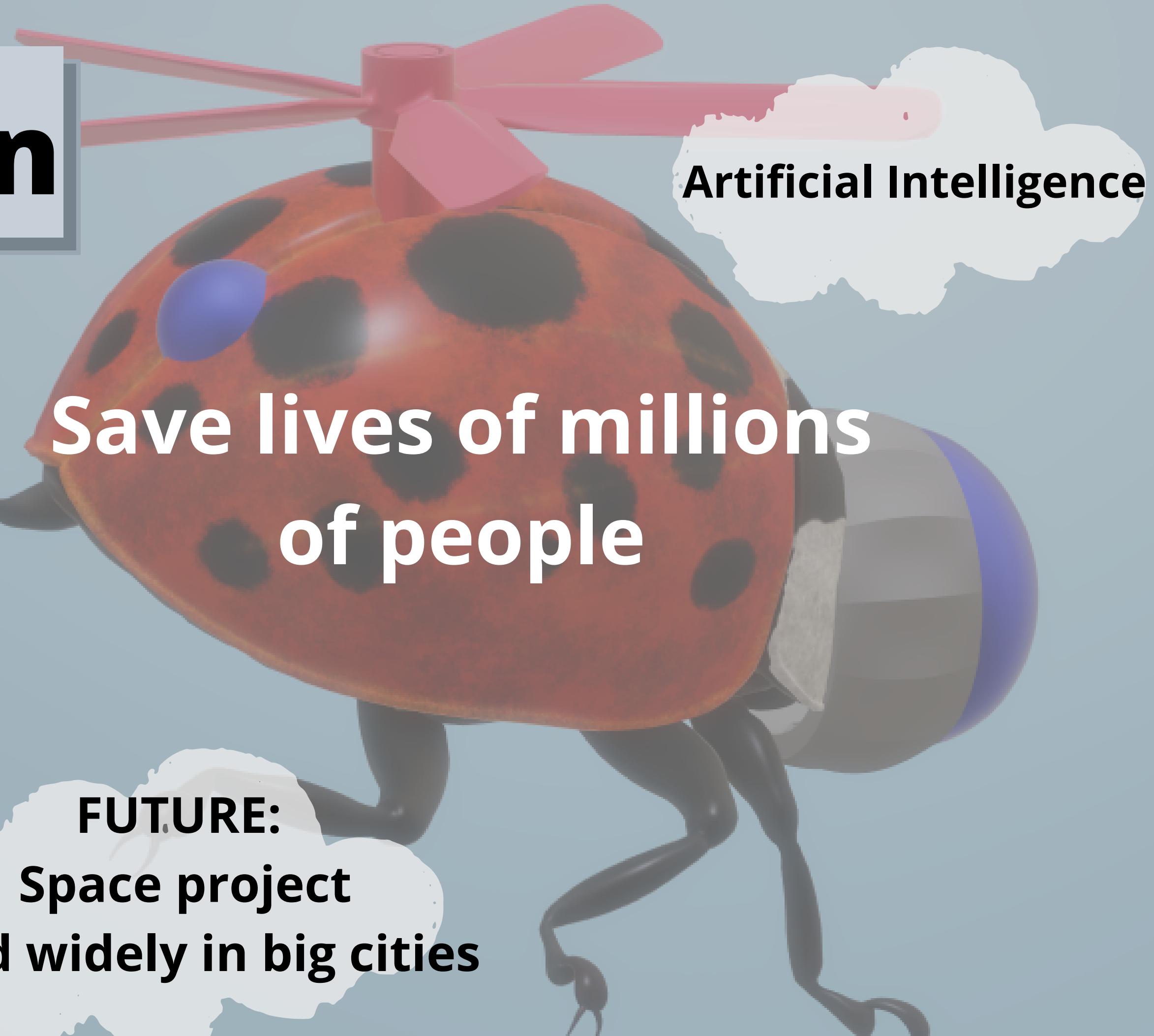
Impact of natural phenomena

Conclusion

Advantages outweigh
disadvantages

Biomimicry always has
positive impact to
engineering

FUTURE:
Space project
Used widely in big cities



Artificial Intelligence