

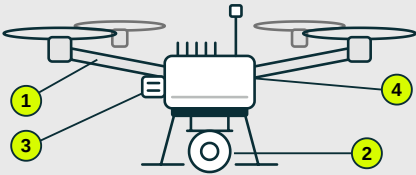
Autonomy Leaves the Lab. Now What?

Whether it flies, drives, or sails, autonomy eventually has to survive harsh battlefield conditions.

Three Environments. Three Very Different Hardware Challenges.

AIR

Drones and uncrewed aircraft



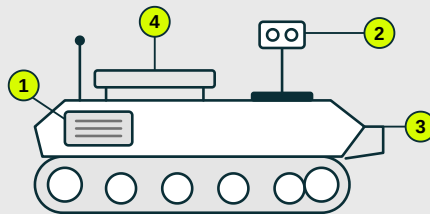
THE CHALLENGE

Weight and vibration

- 1 Airframe structures**
Lightweighted arms, frames and brackets
- 2 Payload and sensor mounts**
Isolating cameras, gimbals and sensors from motor vibration
- 3 Connector hardware**
Battery retainers and panels that stay seated under vibration
- 4 Thermal enclosures**
Light housings that shield compute and move heat out

LAND

Autonomous ground vehicles



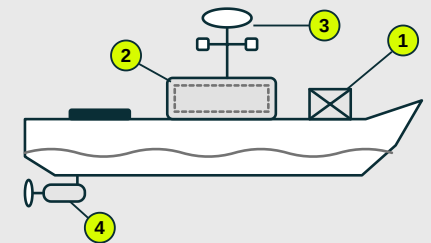
THE CHALLENGE

Shock, dust and water

- 1 Ruggedized enclosures**
Sealed compute housings that keep out dust and water
- 2 Sensor masts and mounts**
Holding sensors steady through off-road shock
- 3 Guards and structures**
Skid plates, bumpers and brackets that take impacts
- 4 Payload interfaces**
Mission-kit plates built for mud and frequent swaps

SEA

USVs and UUVs



THE CHALLENGE

Salt, corrosion and UV exposure

- 1 Corrosion-resistant frames**
Material and coating pairs chosen for saltwater
- 2 Sealed housings**
Gaskets and cable glands that keep seawater out
- 3 Mast and sensor interfaces**
Exposed mounts that hold up to sun and spray
- 4 Propulsion hardware**
Motor mounts, shaft supports and guards below the waterline

Building an autonomous platform?

Get an engineer's eyes on the hardware that has to survive the field.

TALK TO AN ENGINEER →