NIKA: ATLAS

FLIGHT THAT SEES. MAPS THAT MATTER.

OUR MISSION: TOTAL TERRAIN MAPPING

The data we collect is not just a map — it’s a blueprint for what’s possible. Nika Atlas scans the ground in real time, locking in every contour and shift, compiling data that is raw, rich, and ready to power whatever comes next.

DEFINE

Pinpoint the problem. Filter the noise.

SCOPE

Outline limits. Focus the lens.

IDEATE

Break the box. Build the blueprint.

REFINE

Make it clean. Make it mean.

DELIVER

Construct. Calibrate. Challenge.

PRECISION ISN'T JUST IN THE PRODUCT. IT'S IN THE PROCESS.

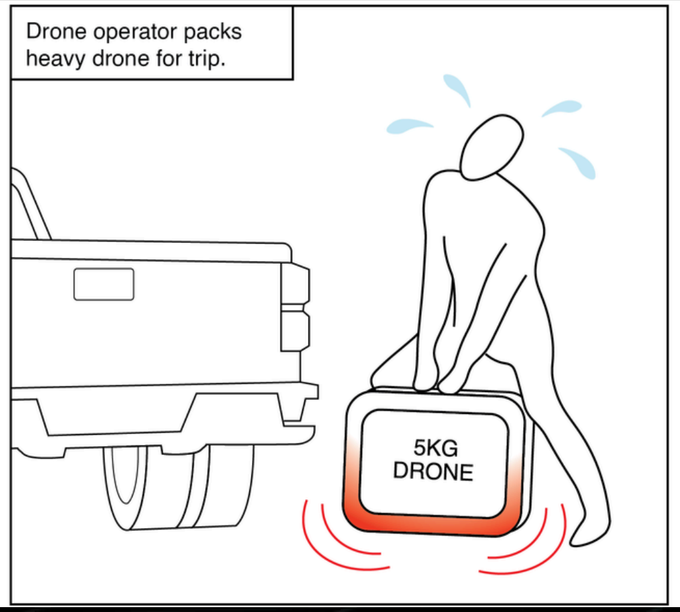
YOU CAN'T DOMINATE WHAT YOU DON'T UNDERSTAND.

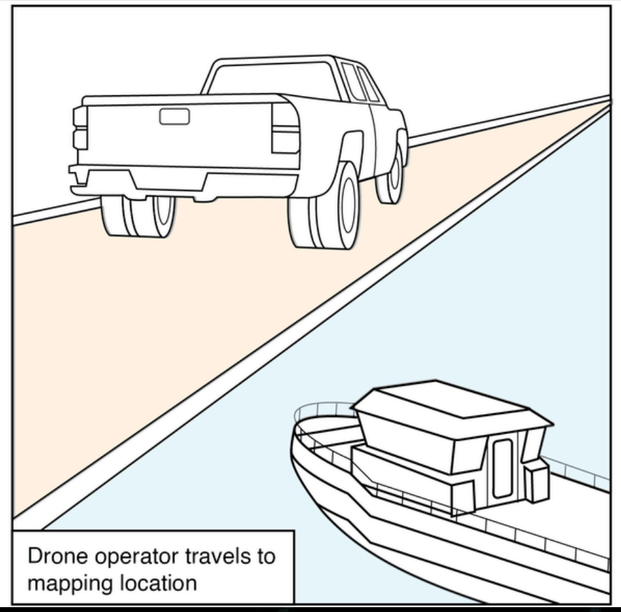
Craft a solution that fuses the benefits of VTOL and fixed-wing flight to **maximise efficiency** and **range** to collect geospatial data.

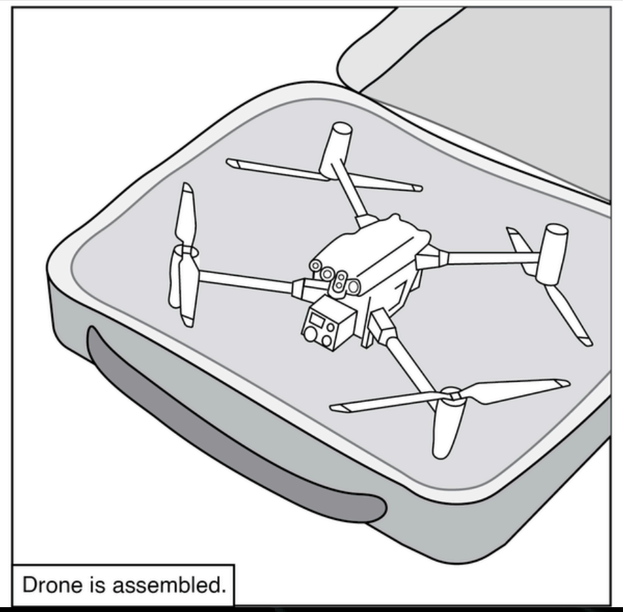
01 FRAMING THE CHALLENGE

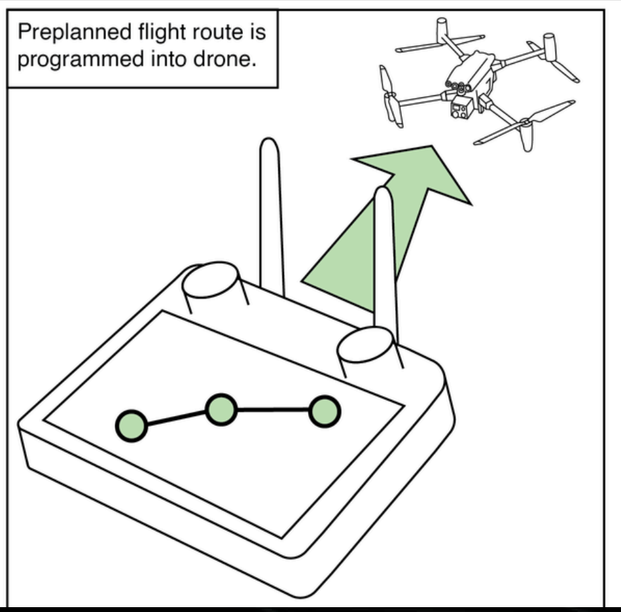
ON THE GROUND:

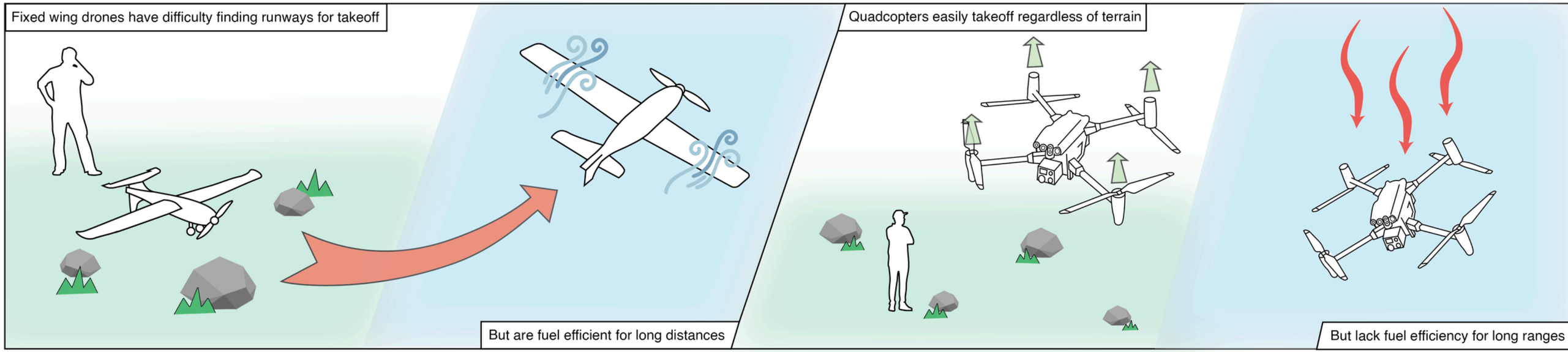
The journey speaks. We just listened differently.

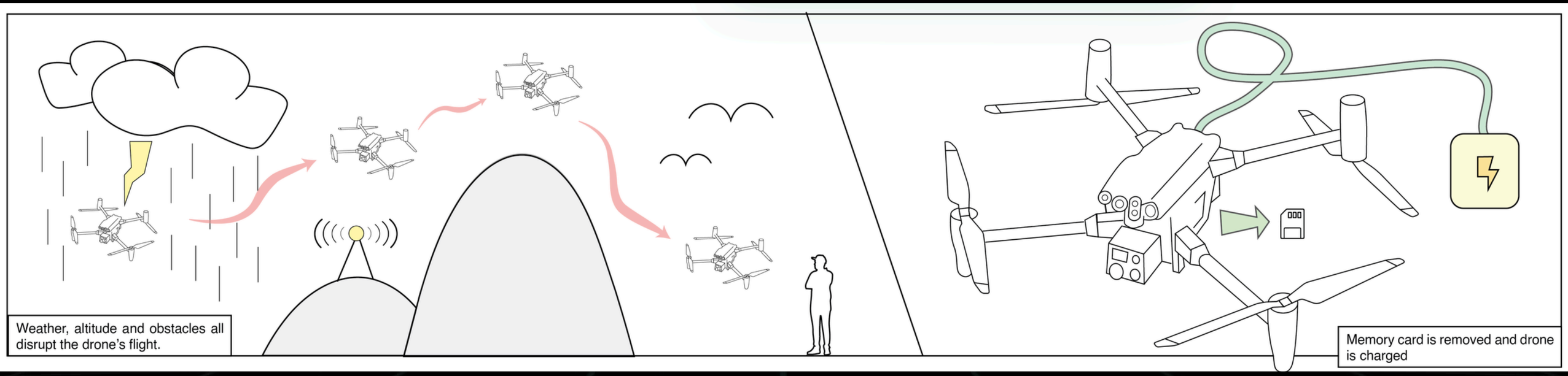









Fixed wing drones have difficulty finding runways for takeoff
But are fuel efficient for long distances
Quadcopters easily takeoff regardless of terrain
But lack fuel efficiency for long ranges


Weather, altitude and obstacles all disrupt the drone's flight.
Memory card is removed and drone is charged

DESIGN ISN'T DECORATION—IT'S PRECISION IN FORM.

01 BOUNDLESS DEPLOYMENT

02 FUEL EFFICIENT

03 ADAPTIVE LANDING

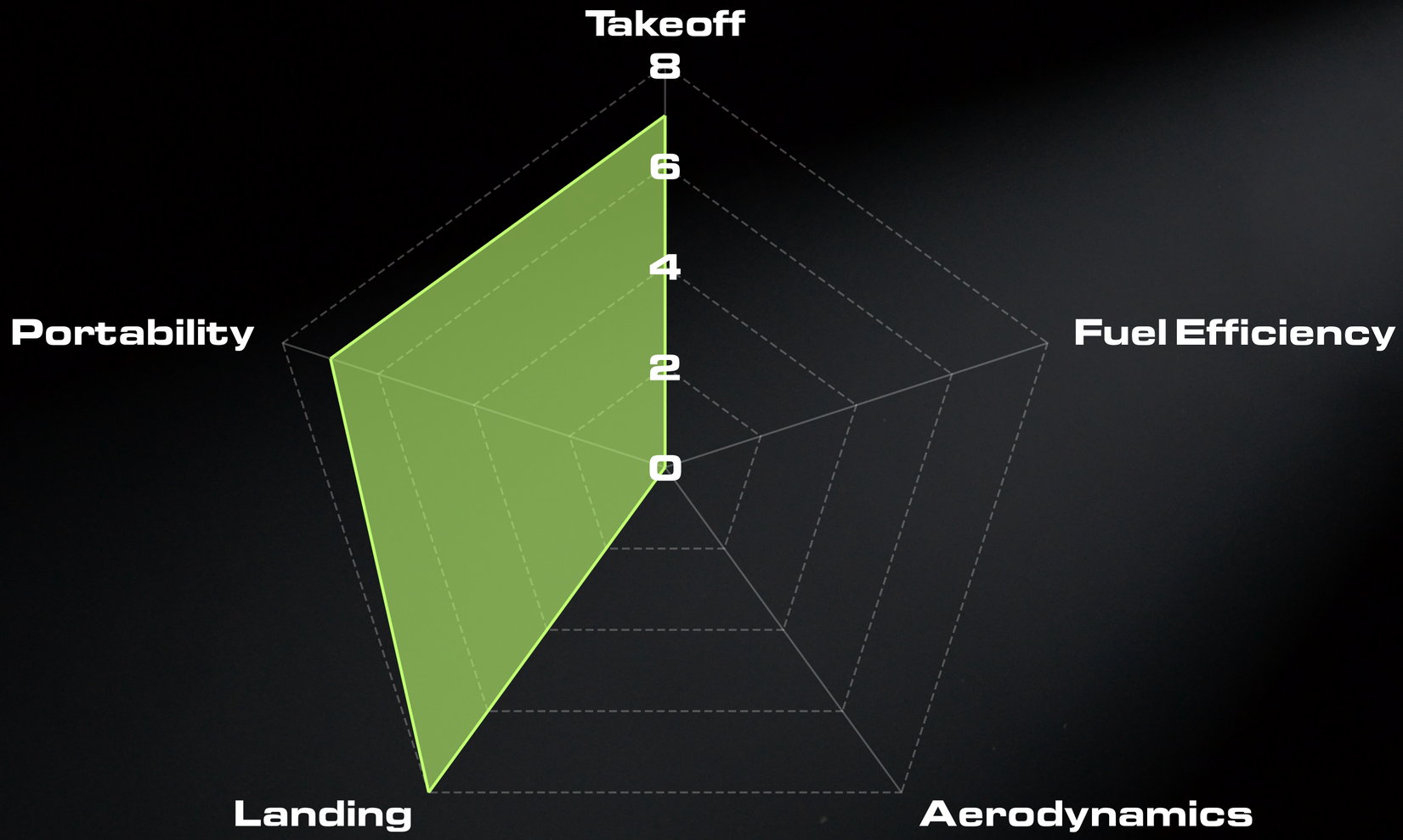
04 PORTABLE BUILD

BASELINE TECH:

DJI M30T

RESPECT THE BASE. REINVENT THE EDGE.

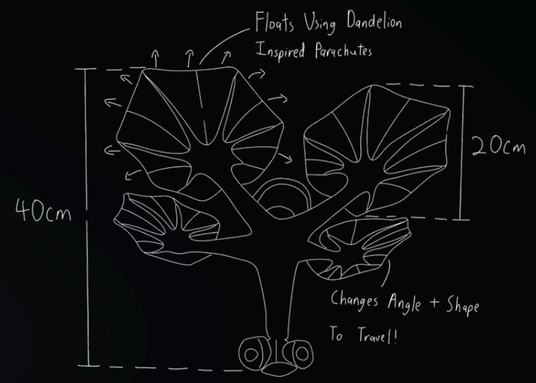
BASELINE TECH:
DJI M30T

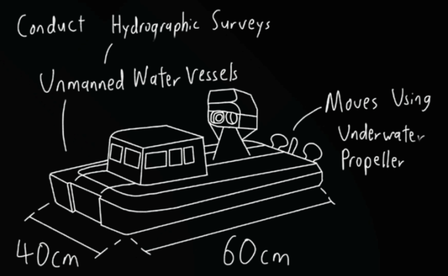


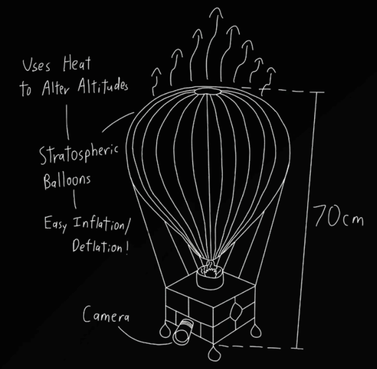
PHASE 2:

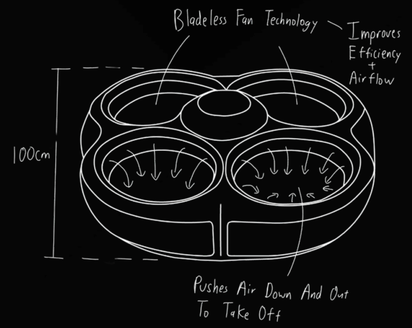
PROTOTYPE. PRESSURE. PUSH.

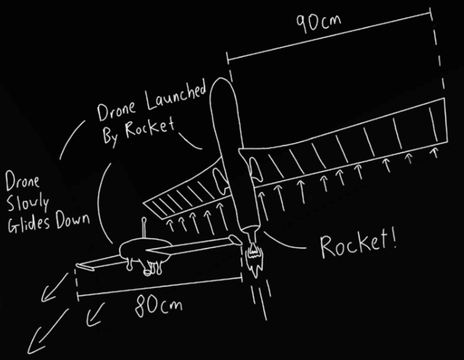
THIS IS WHERE WE STOP PLAYING SAFE.

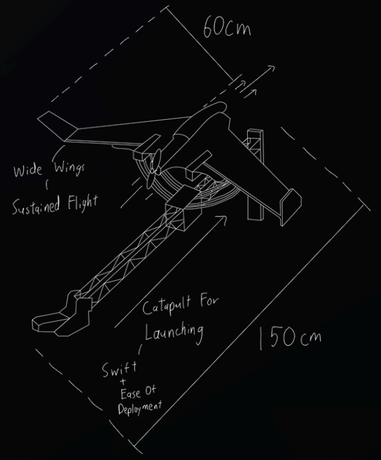


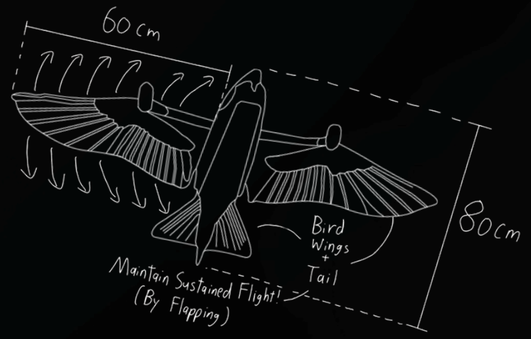


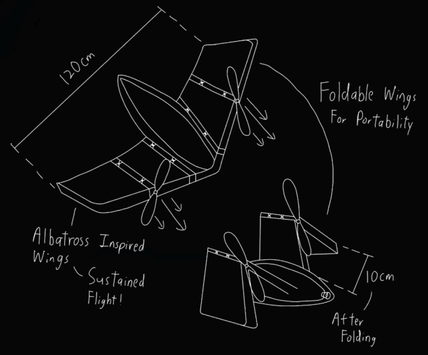


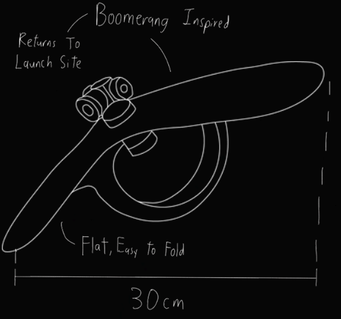


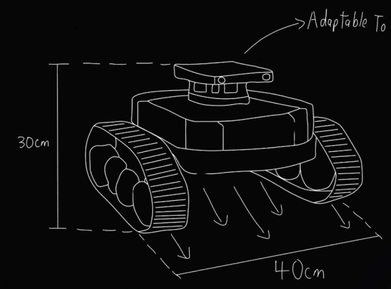






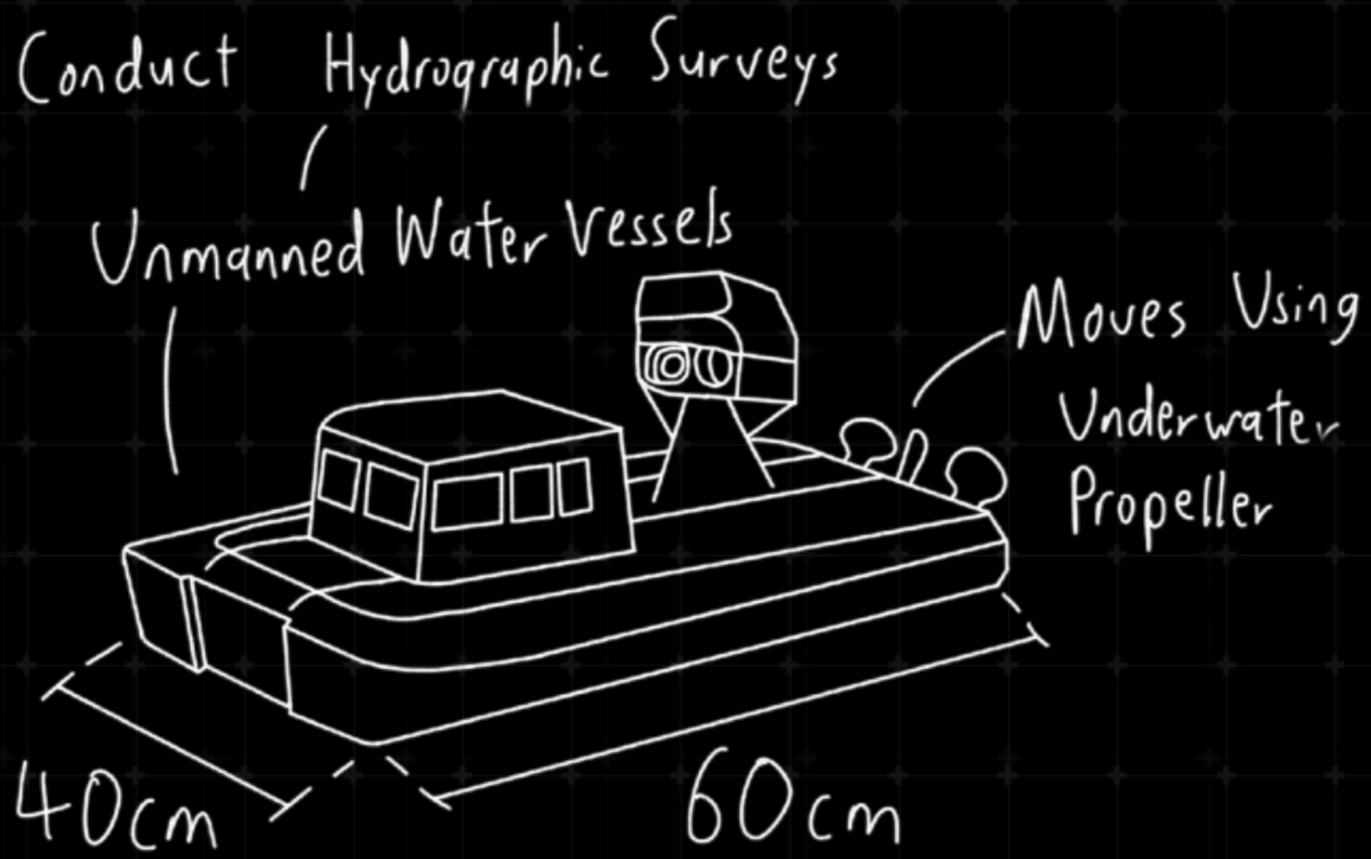


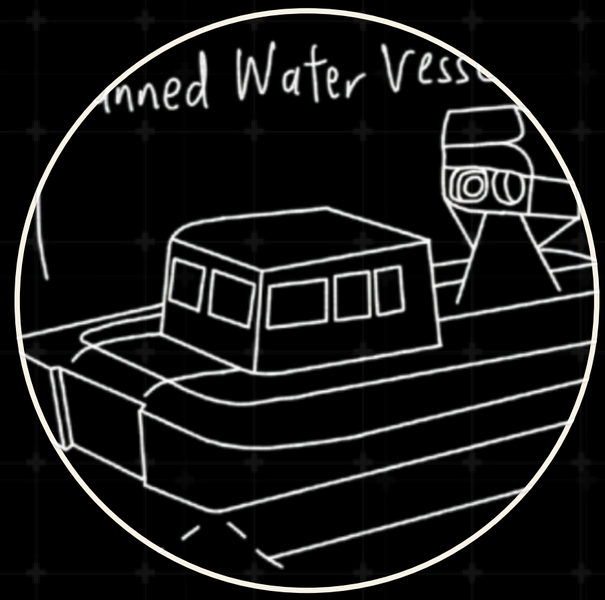




Blueprints That Bled First.

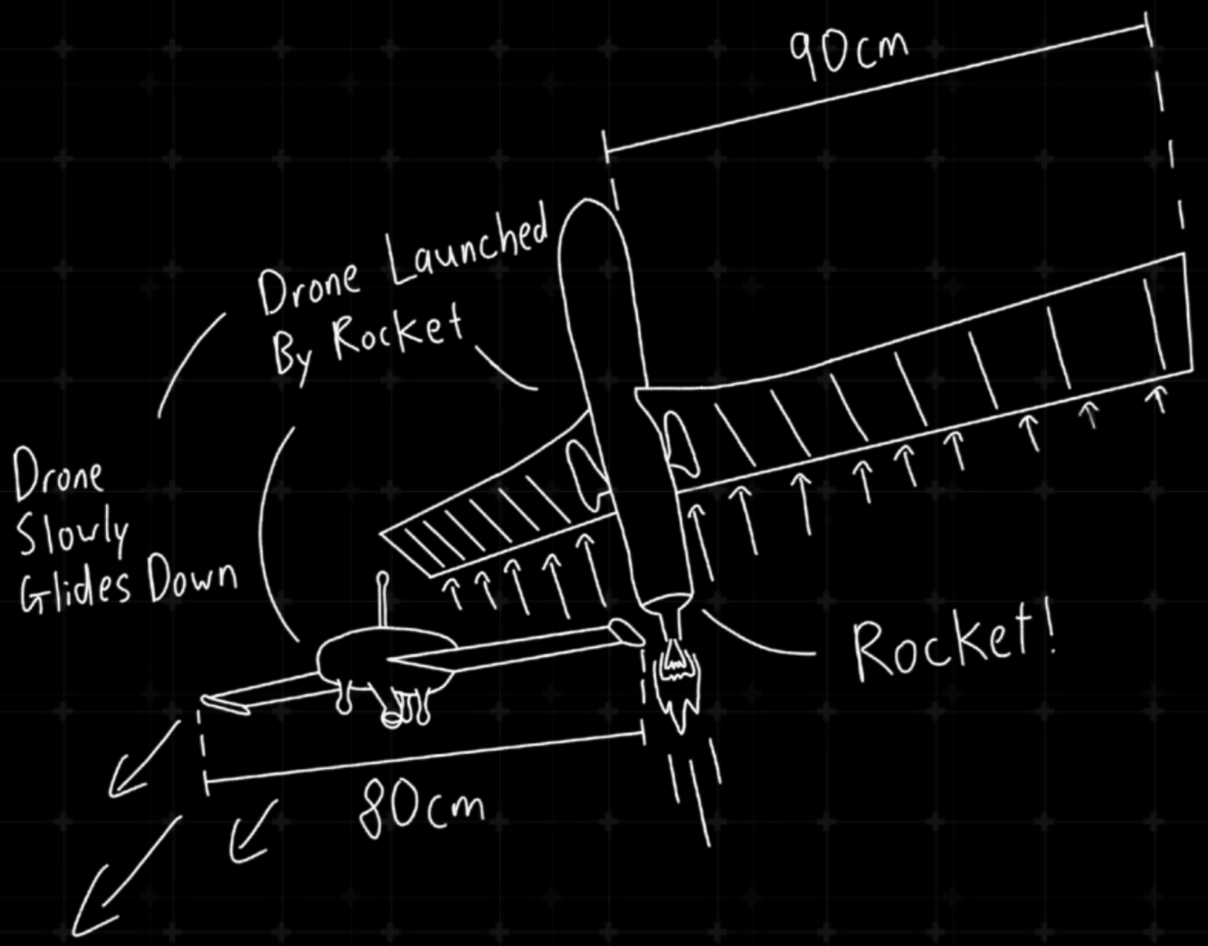
The ideas were wild. Some broke. Some barely lifted.
But all of them moved us forward.
Design isn’t about getting it right—
It’s about getting it real.

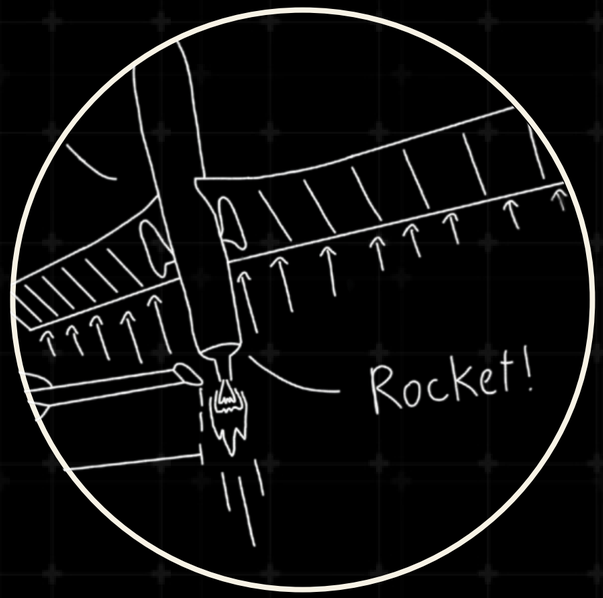




AUTO LANDER

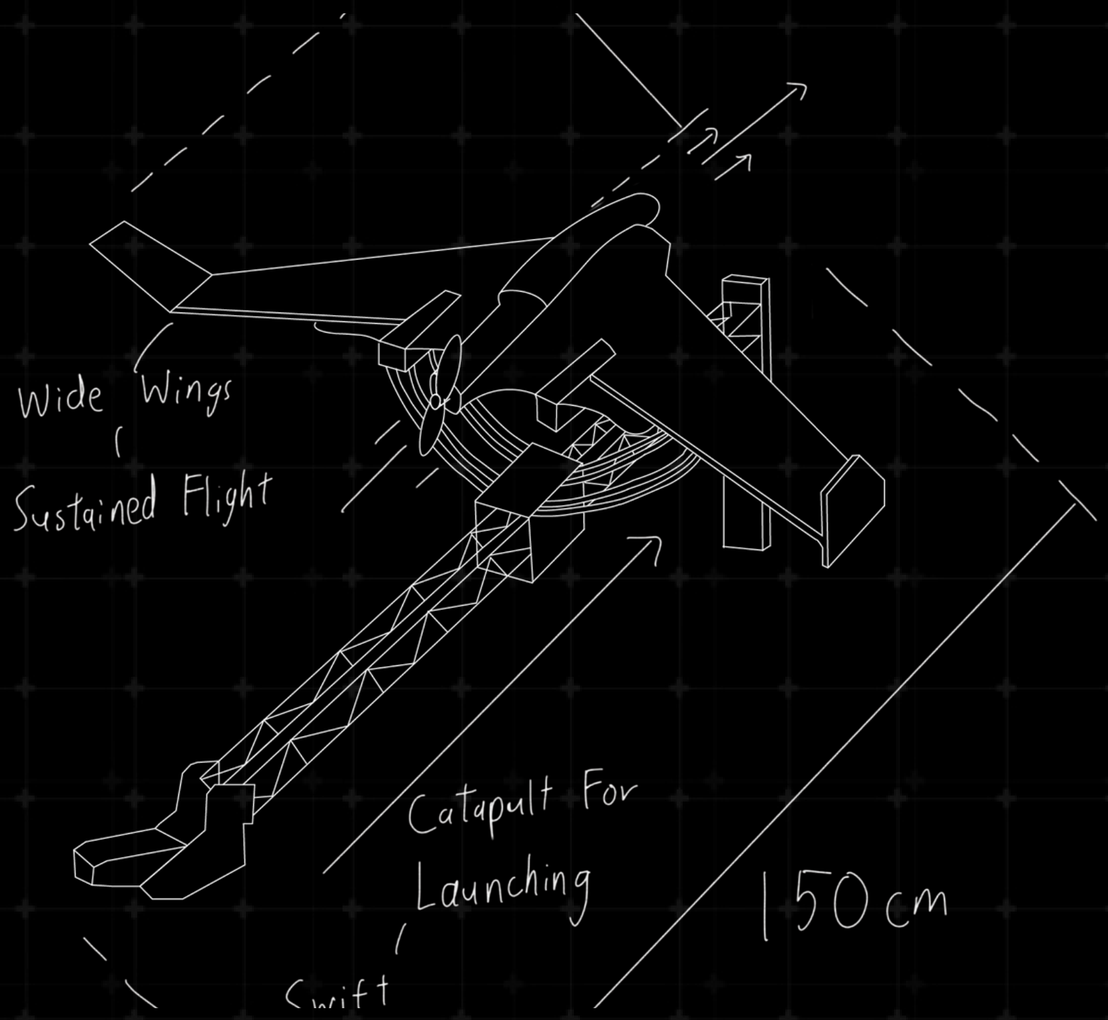
Unmanned. Unstoppable.

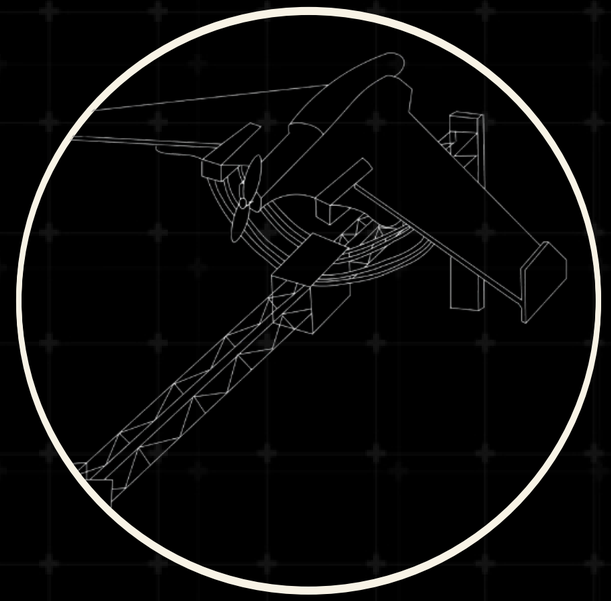




ROCKET V-TOL

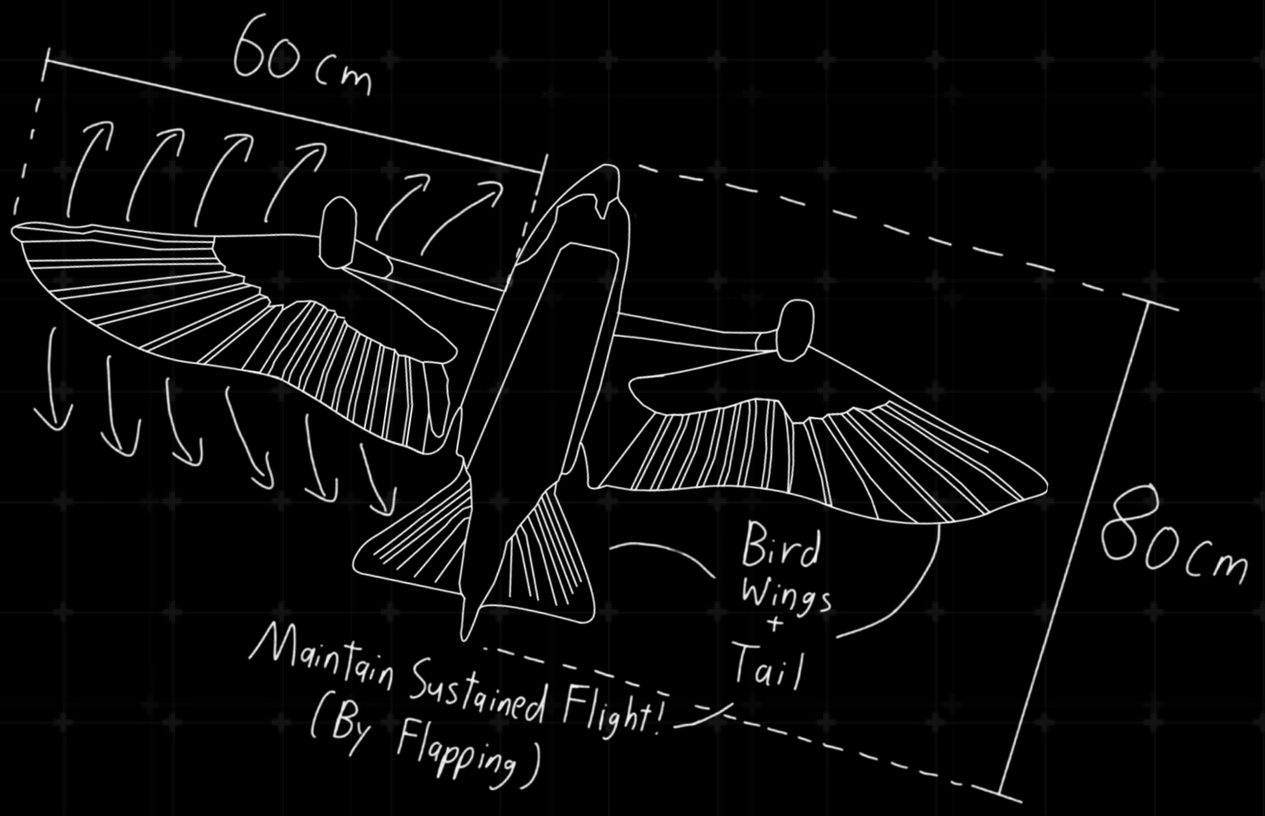
No space? No problem.

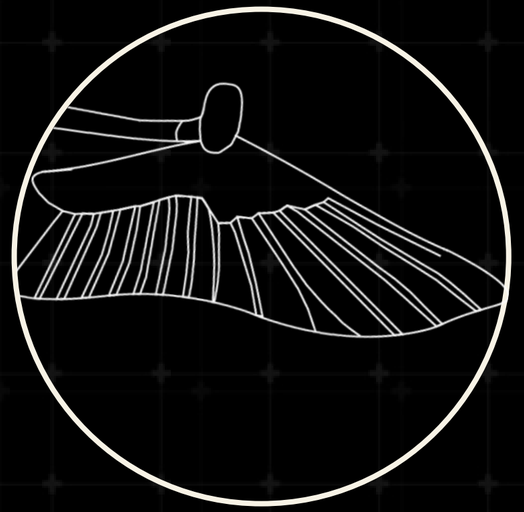




FIXED-WING CATAPULTER

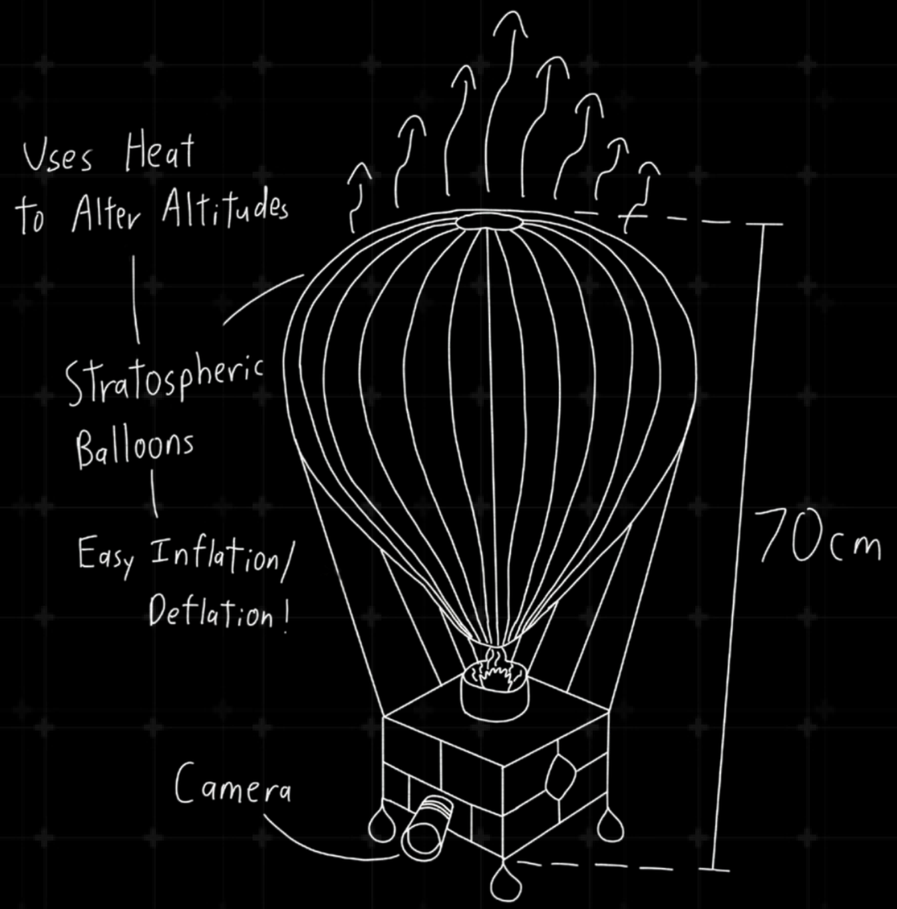
Launch fast. Fly farther.

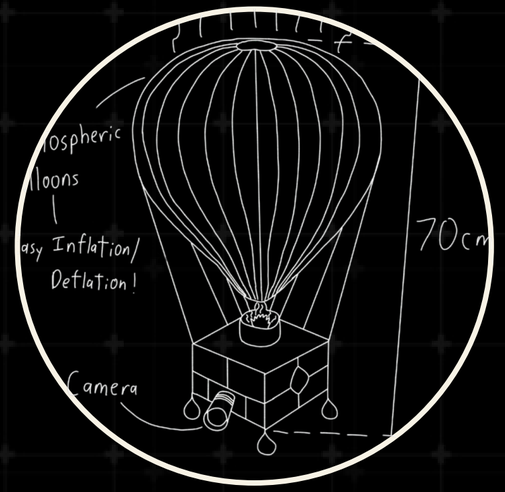




FIXED-WING ADAPTER

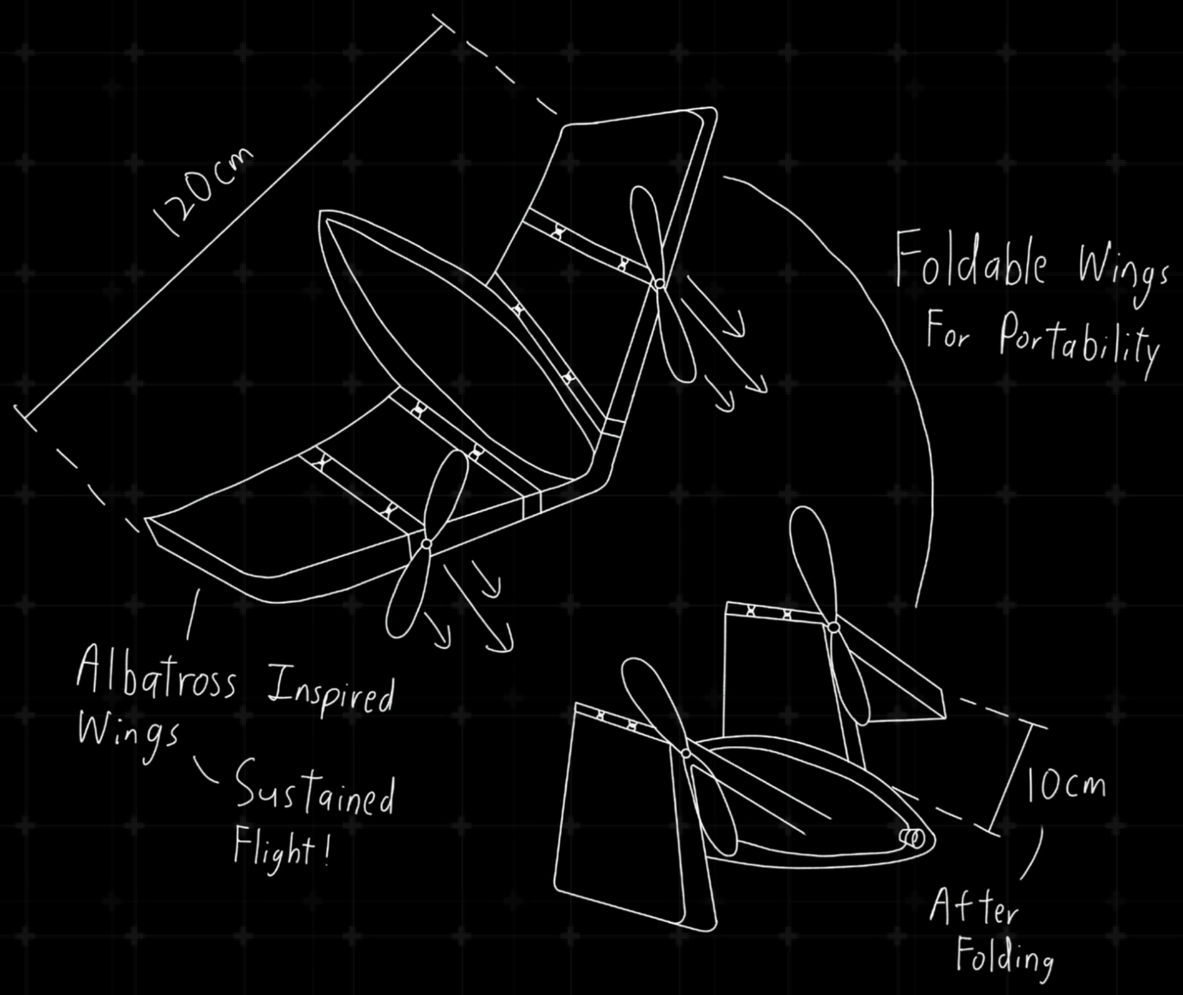
Winged intelligence.





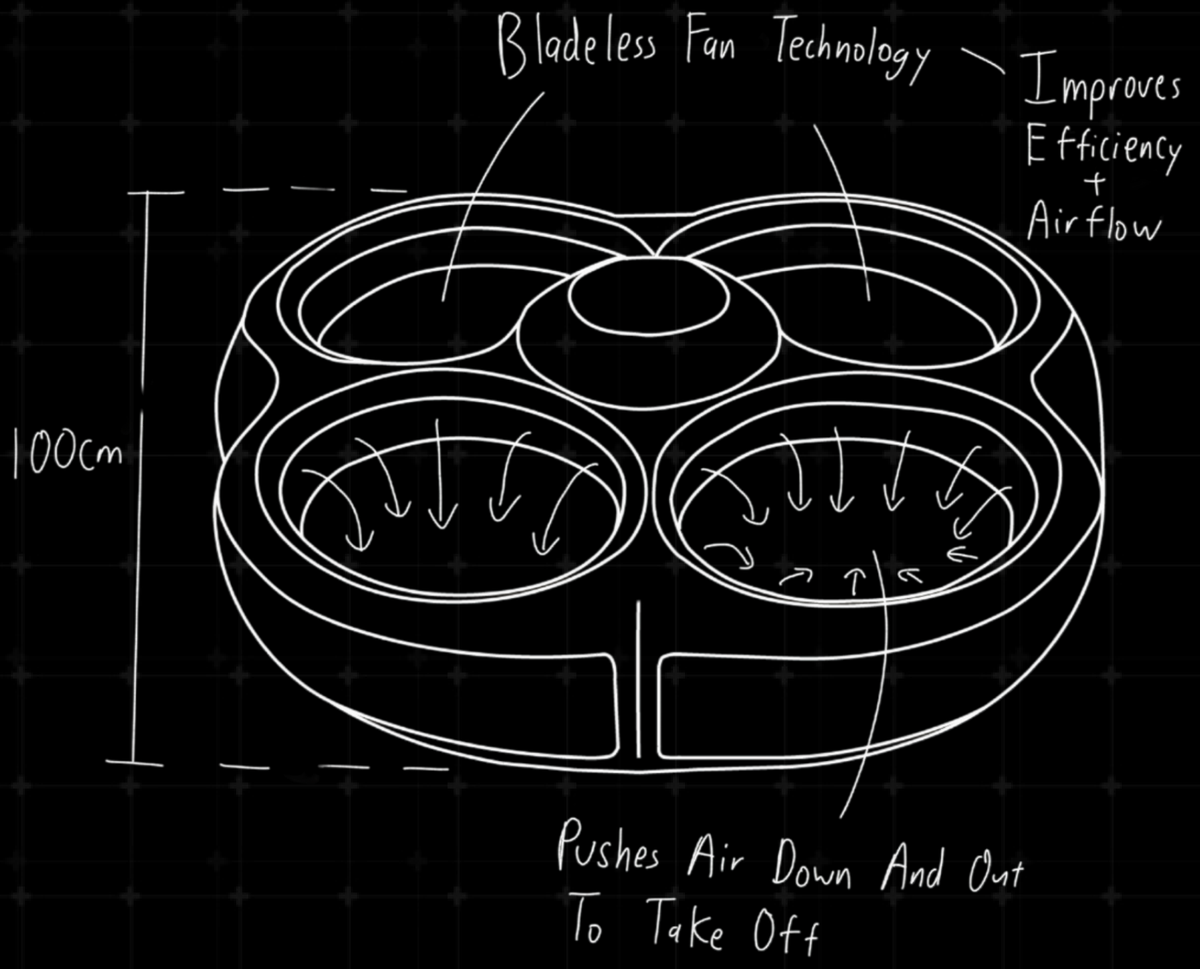
HOT DRIFTER

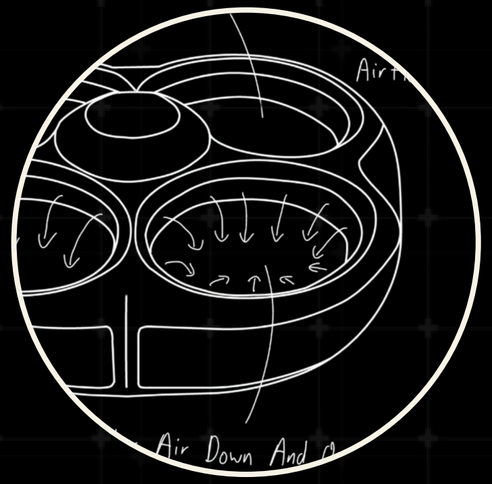
A balloon with brains. And altitude.



POCKET GLIDER

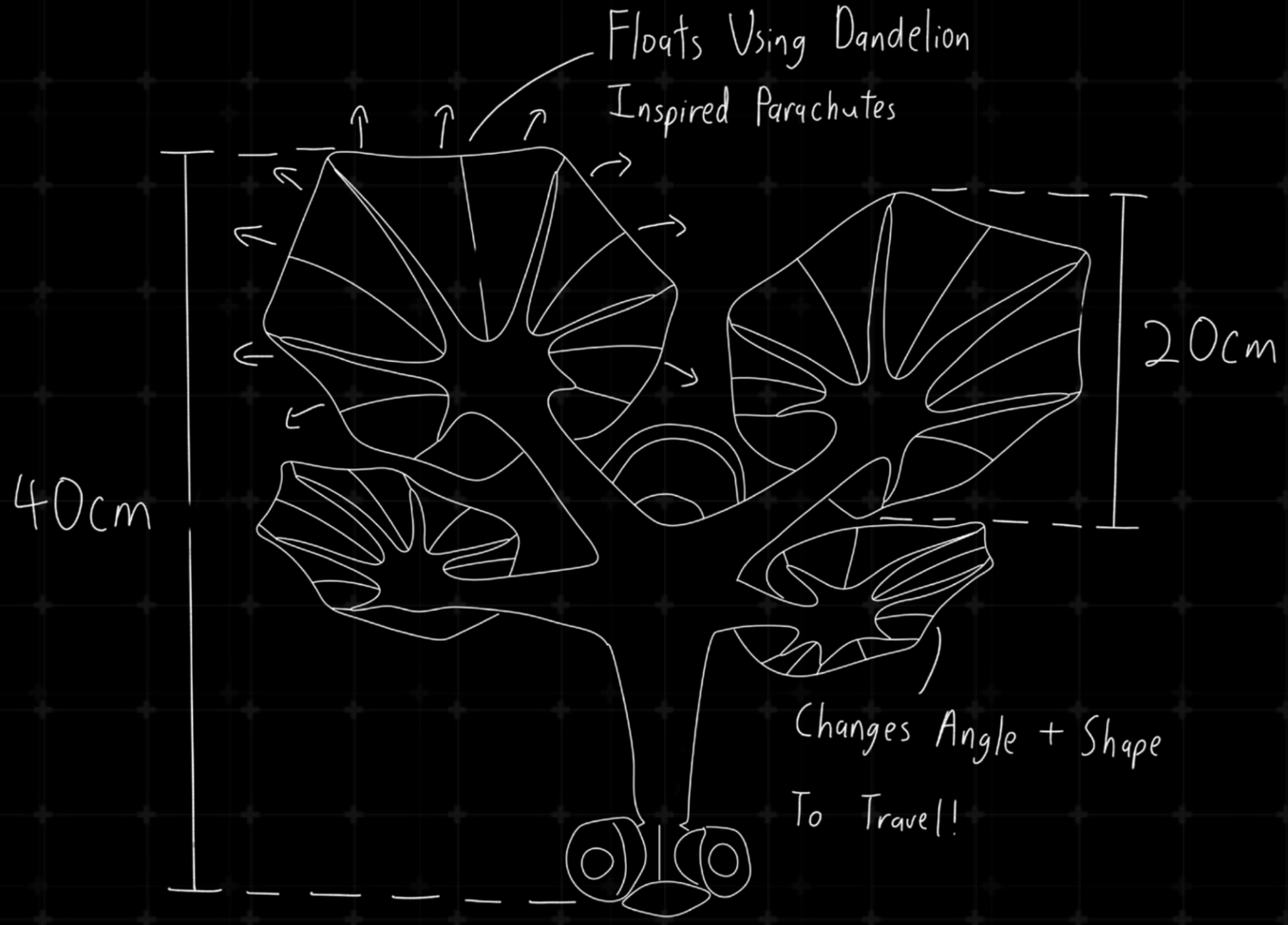
Folds small. Flies far.

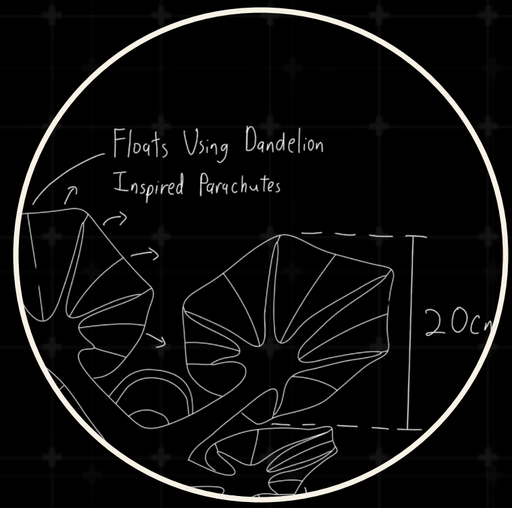




DYSON DRIFTER

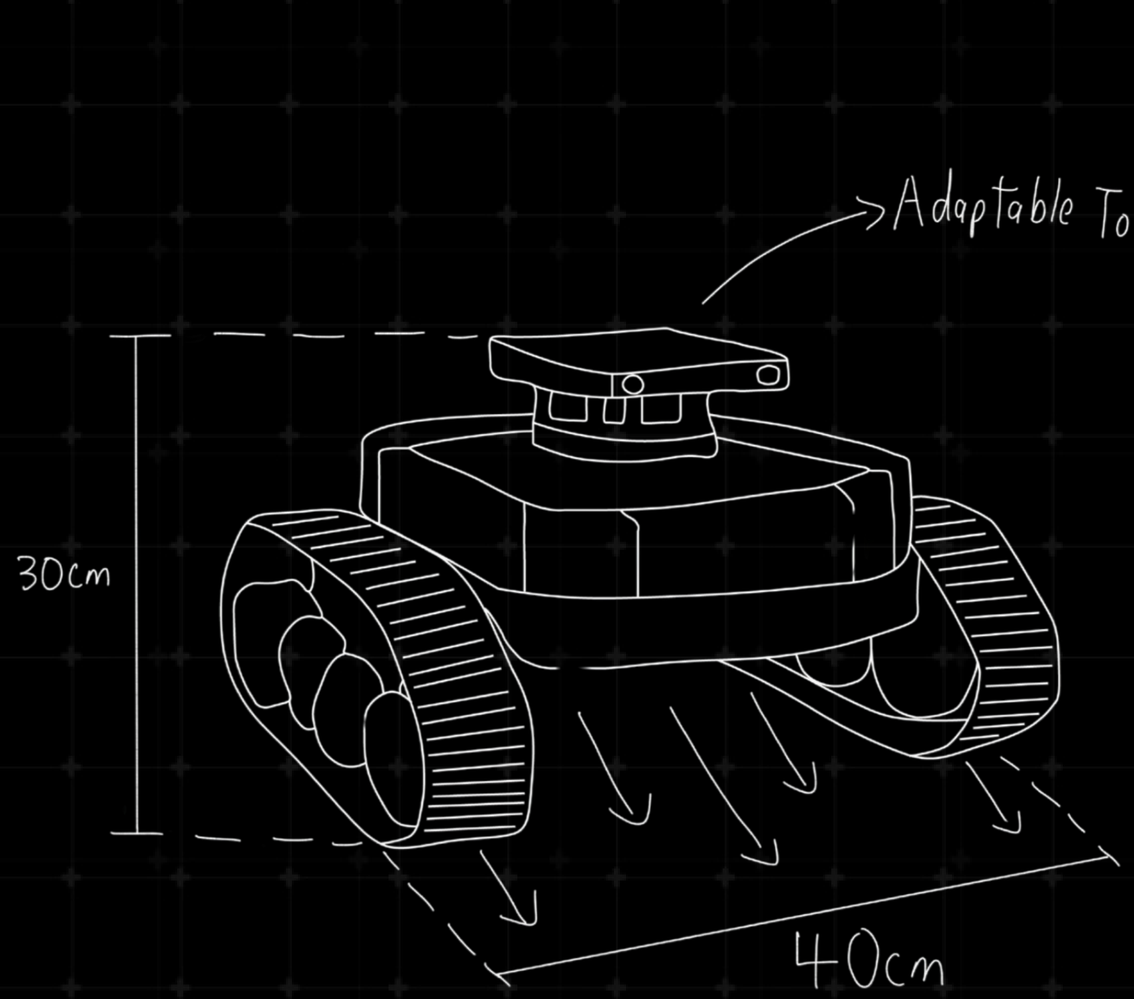
Zero blades, more motion.

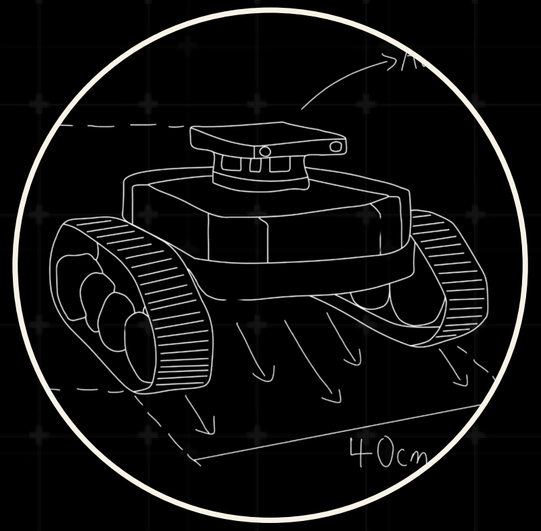




AEROSEED

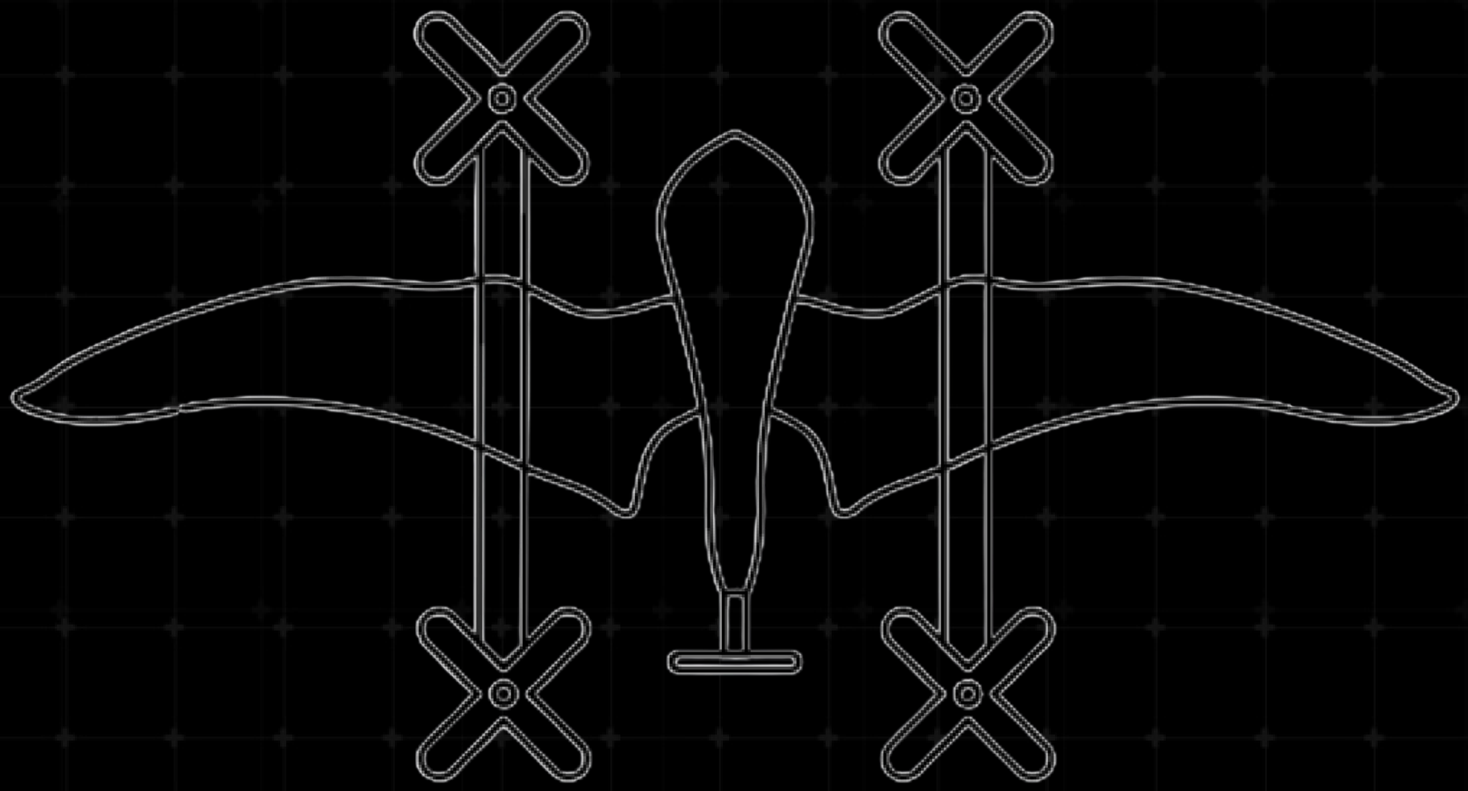
Light enough to listen to the wind.

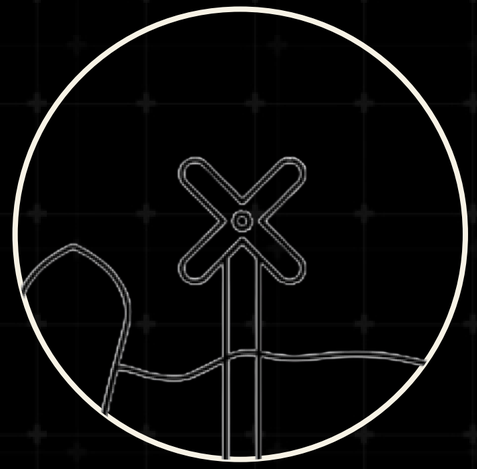




PATHFINDER MINI

Crawls low. Sees high.





AEROSCREECH

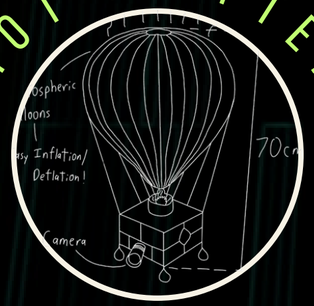
The Batmobile that flies.

FEASIBILITY

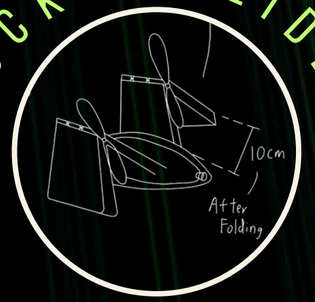
IMPACT

FLOATER

HOT DRIFTER

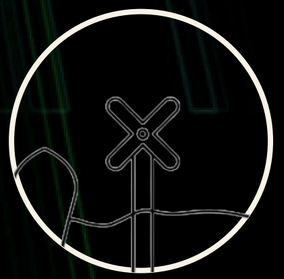


POCKET GLIDER



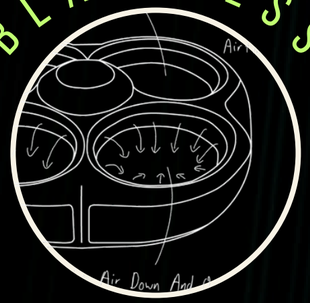
FIXED - WING

V - TOL

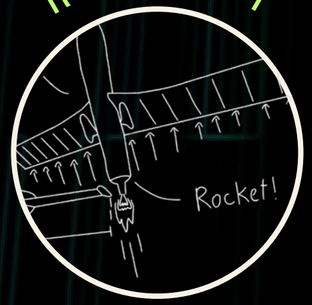


LAND - TRAVEL

BLADELESS



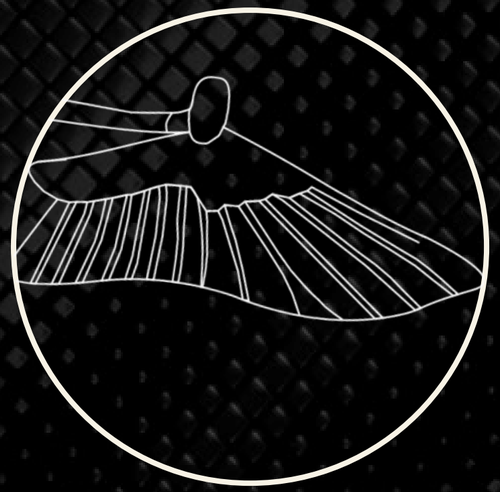
ROCKET



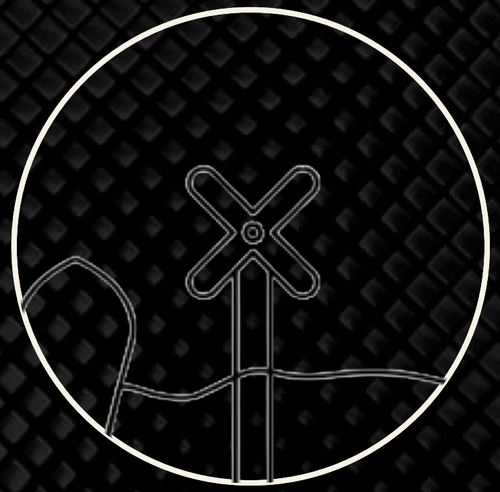
AUTONOMOUS

CATAPULT

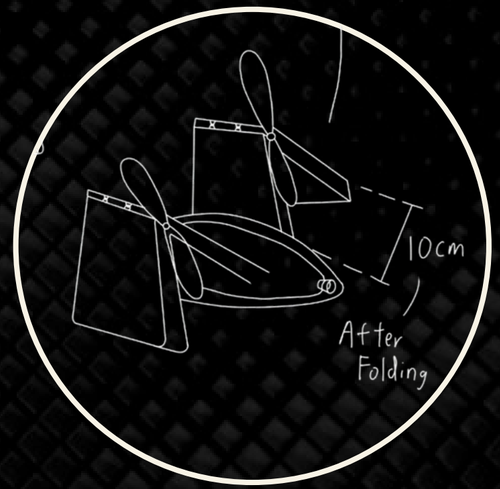
ITERATIONS:
synthesised



Fixed wing flight



VTOL



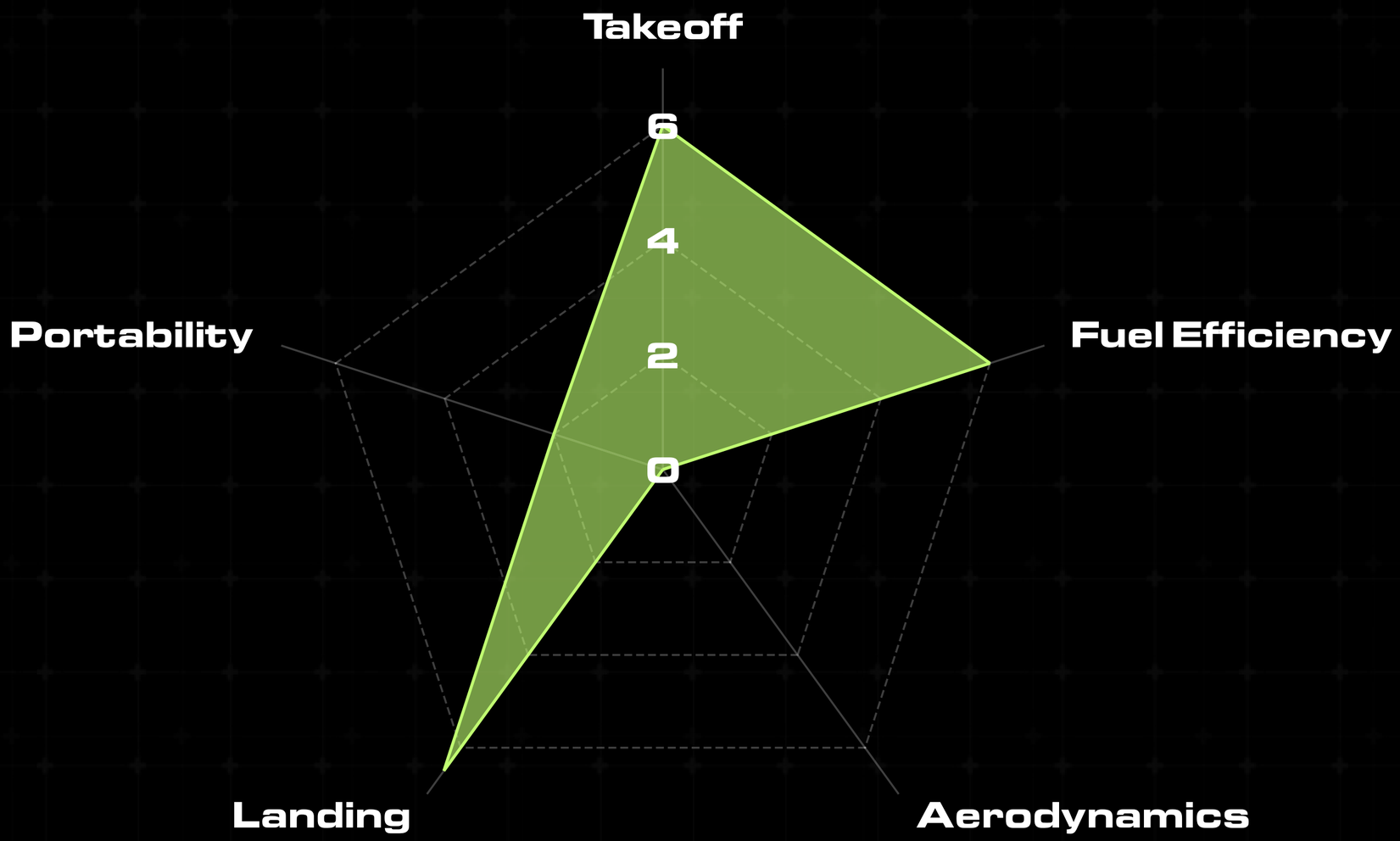
Compact travel

TAKE WHAT WORKS. THEN TAKE OFF.

PROTOTYPE

01

AetherPlate



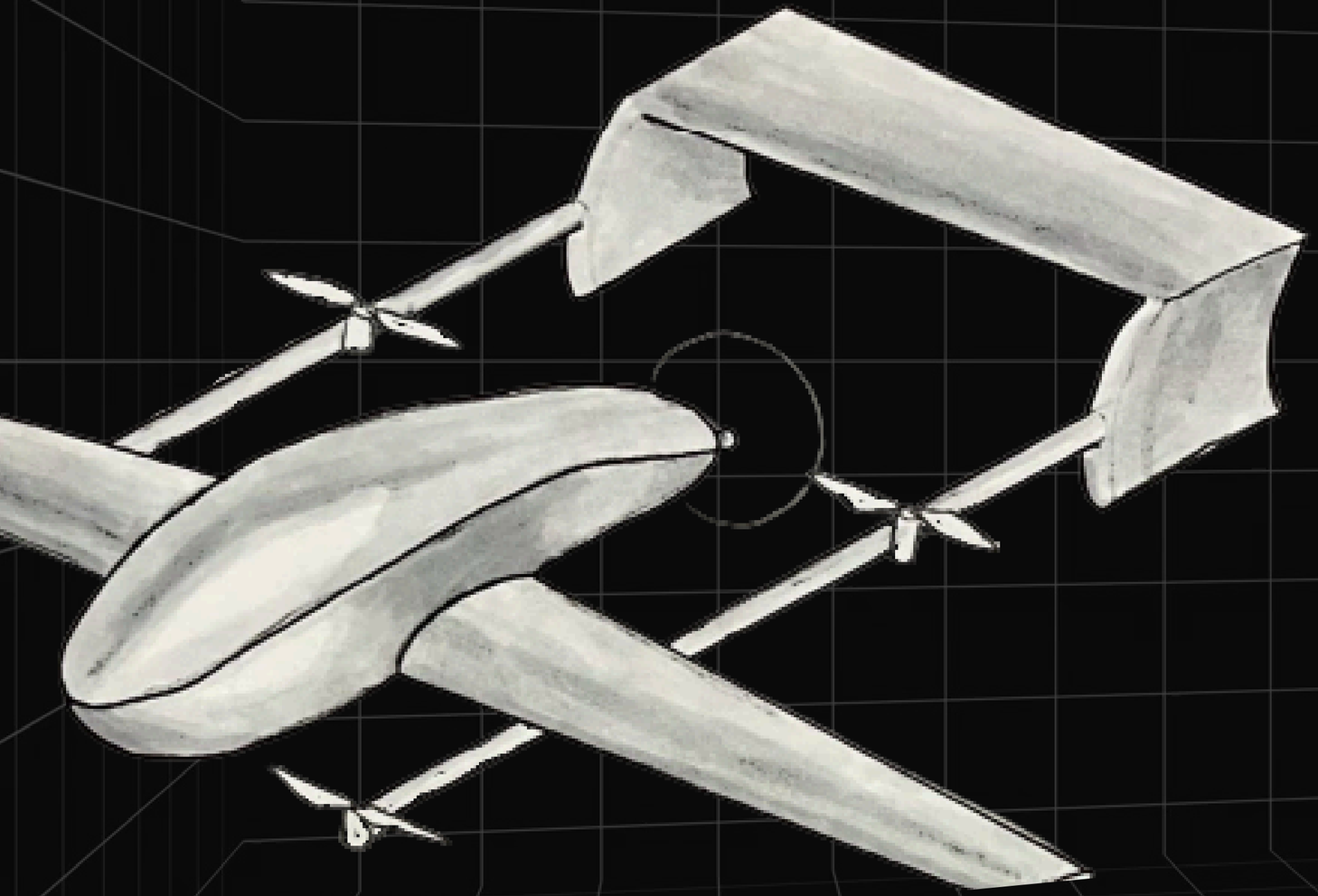
PHASE 3:

FEATURES, FINNESSED

It’s in the details.

Sketch first, Sim later

Because precision doesn’t start with pixels.



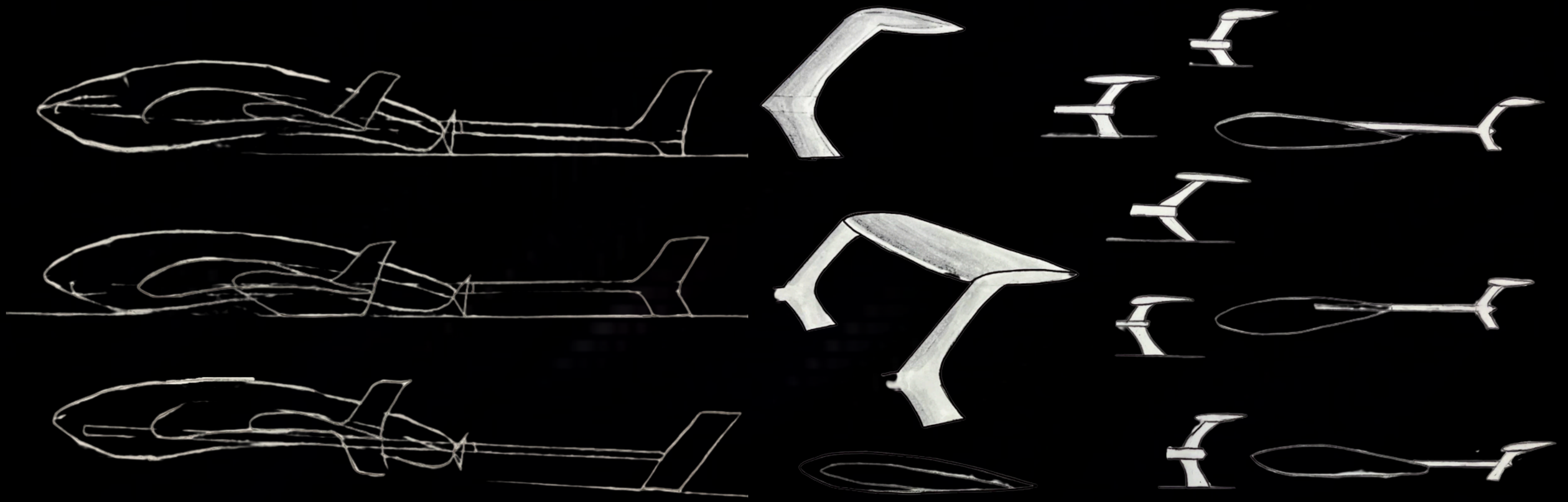
INSPIRED BY THE FLYING FISH.

FUSELAGE

SCULPTED TO SOLVE.

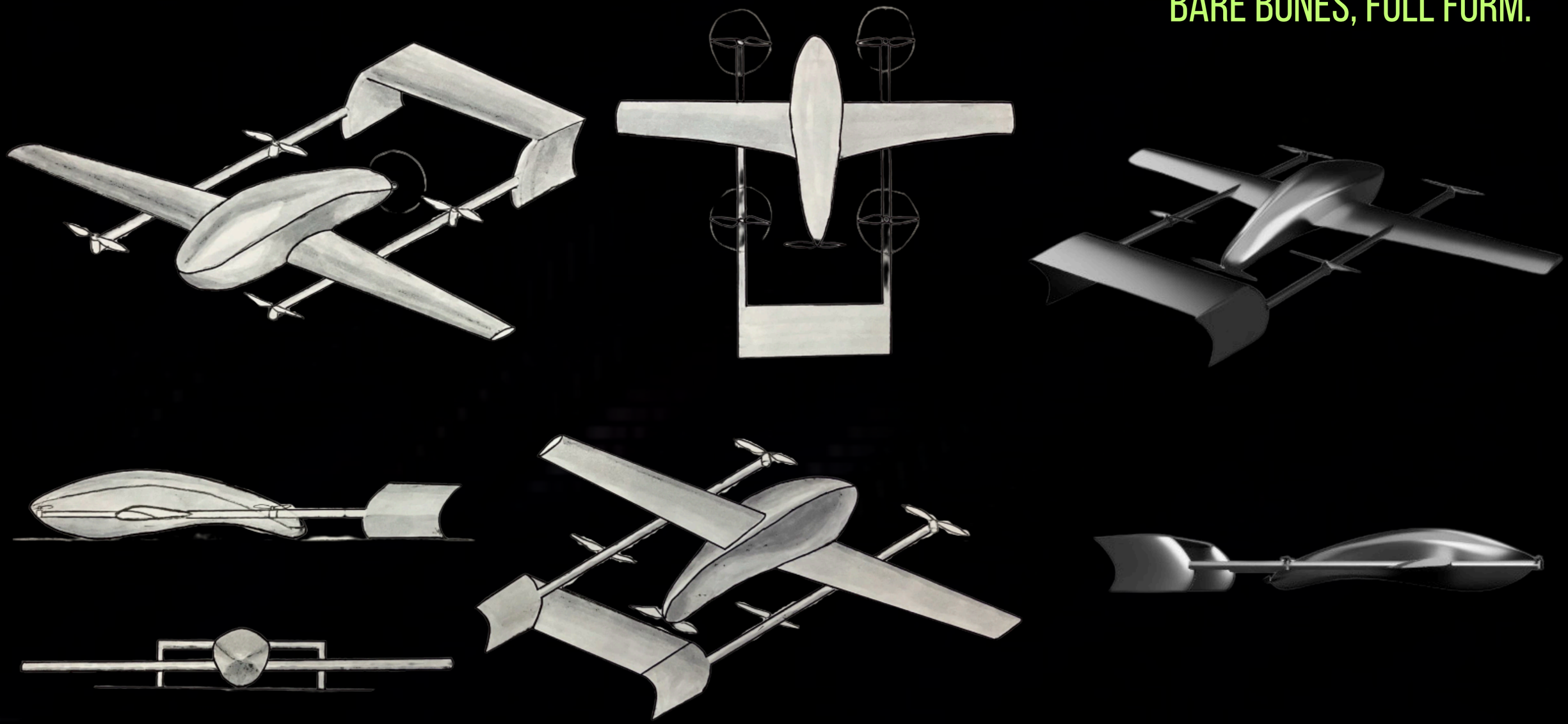
FUSELAGE

ENGINEERED GRACE.



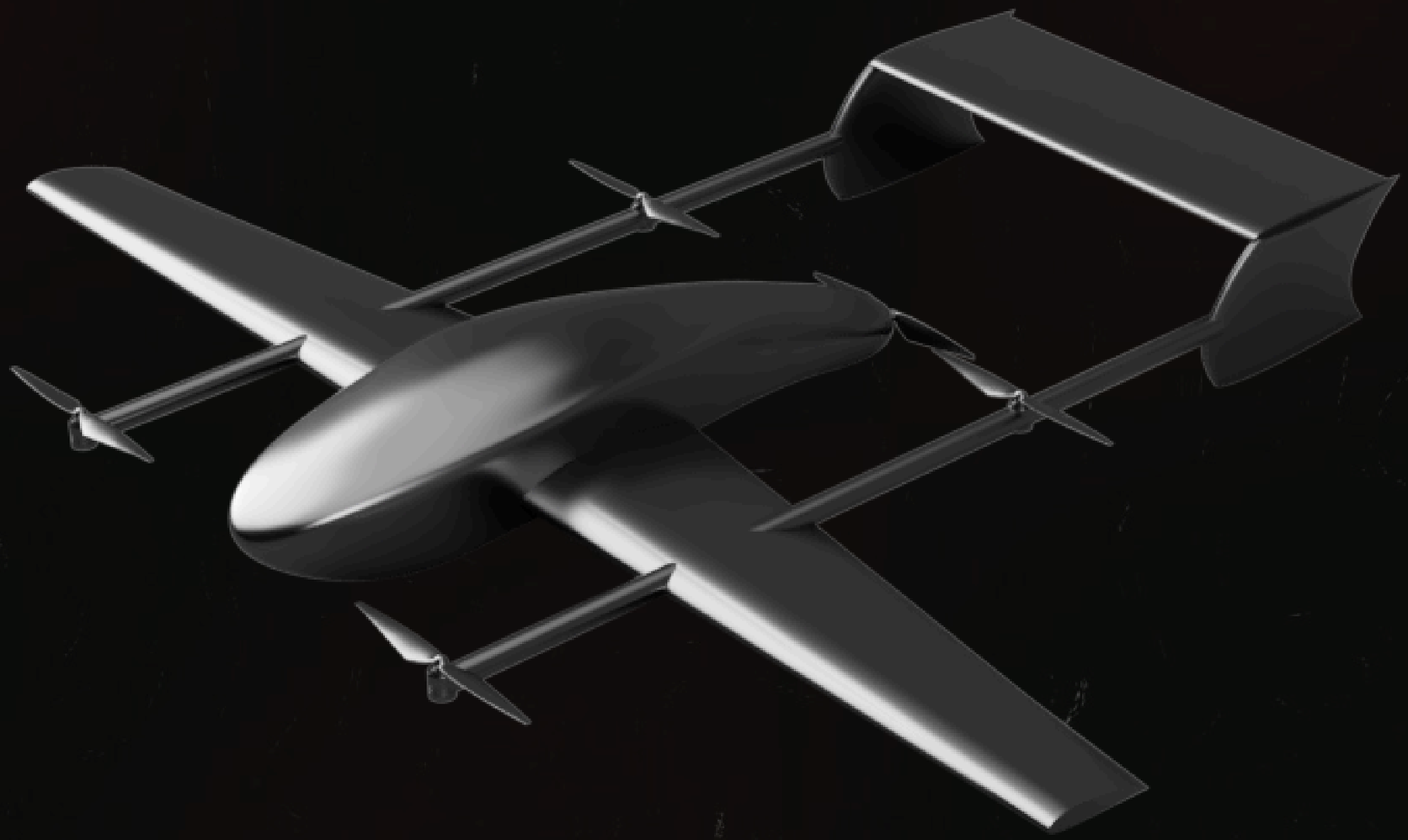
TOUCHDOWN

BARE BONES, FULL FORM.



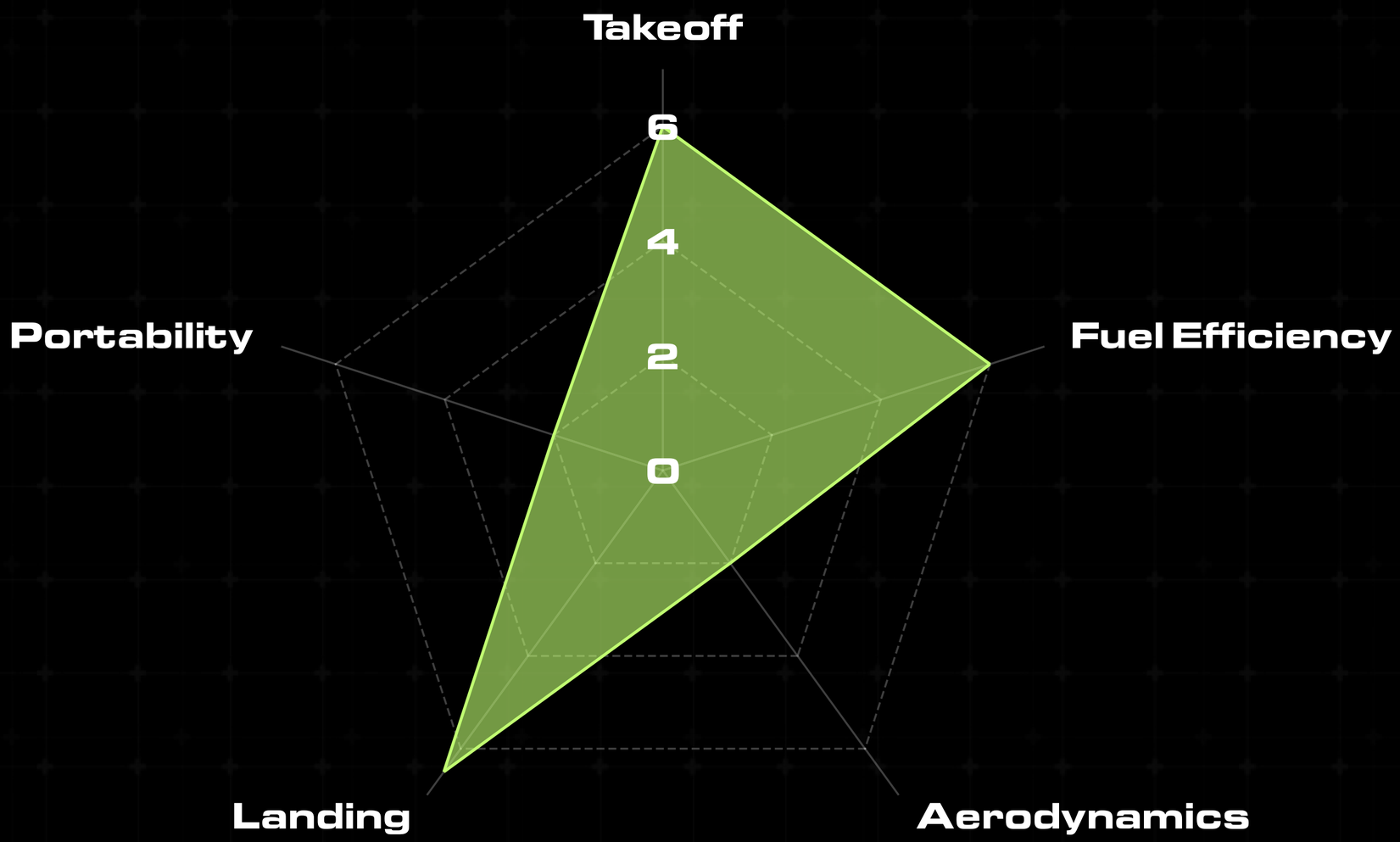
ANATOMY OF A DRONE

SkyFin VX

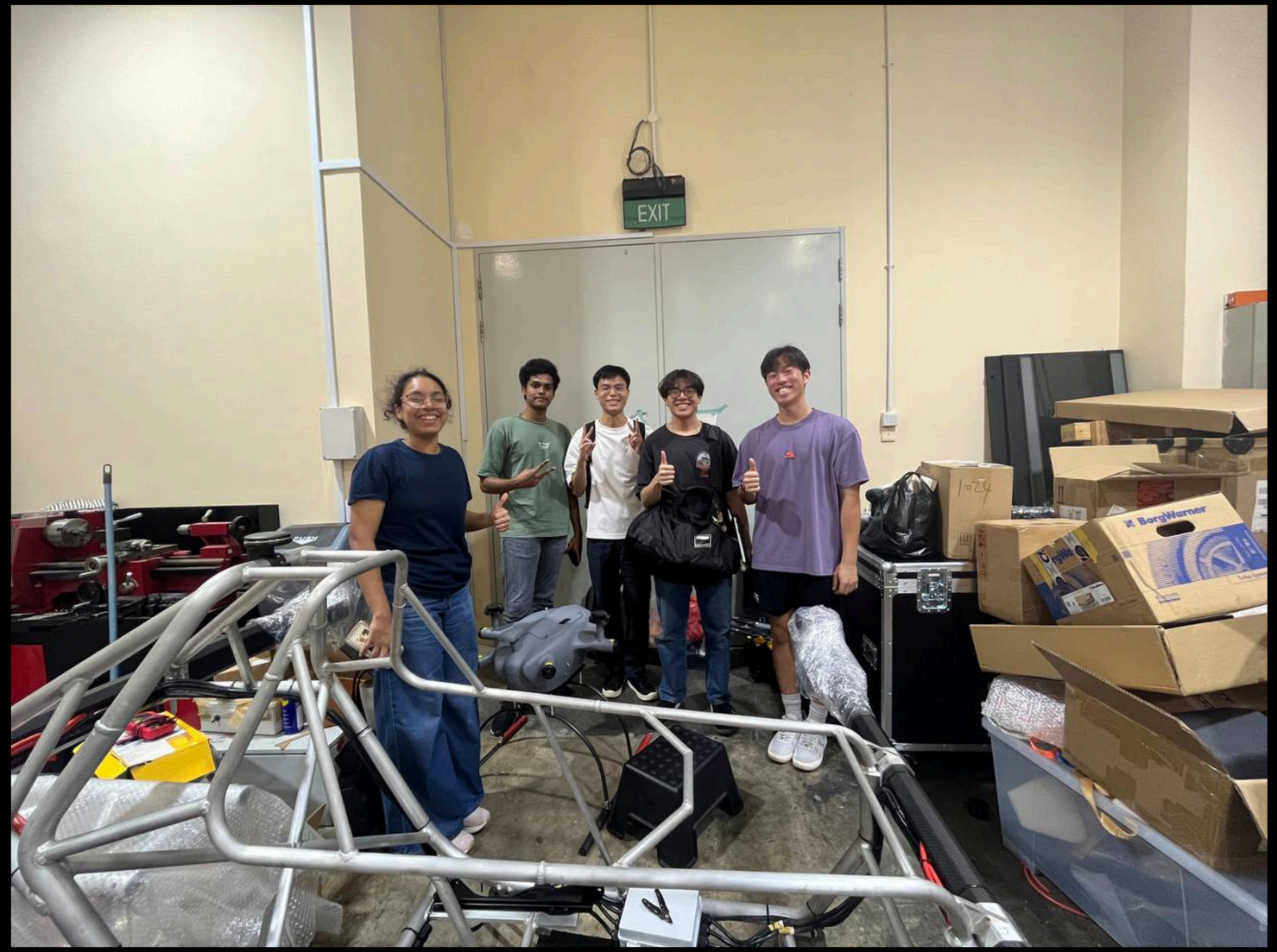


OUR SHARPEST SKETCH YET.

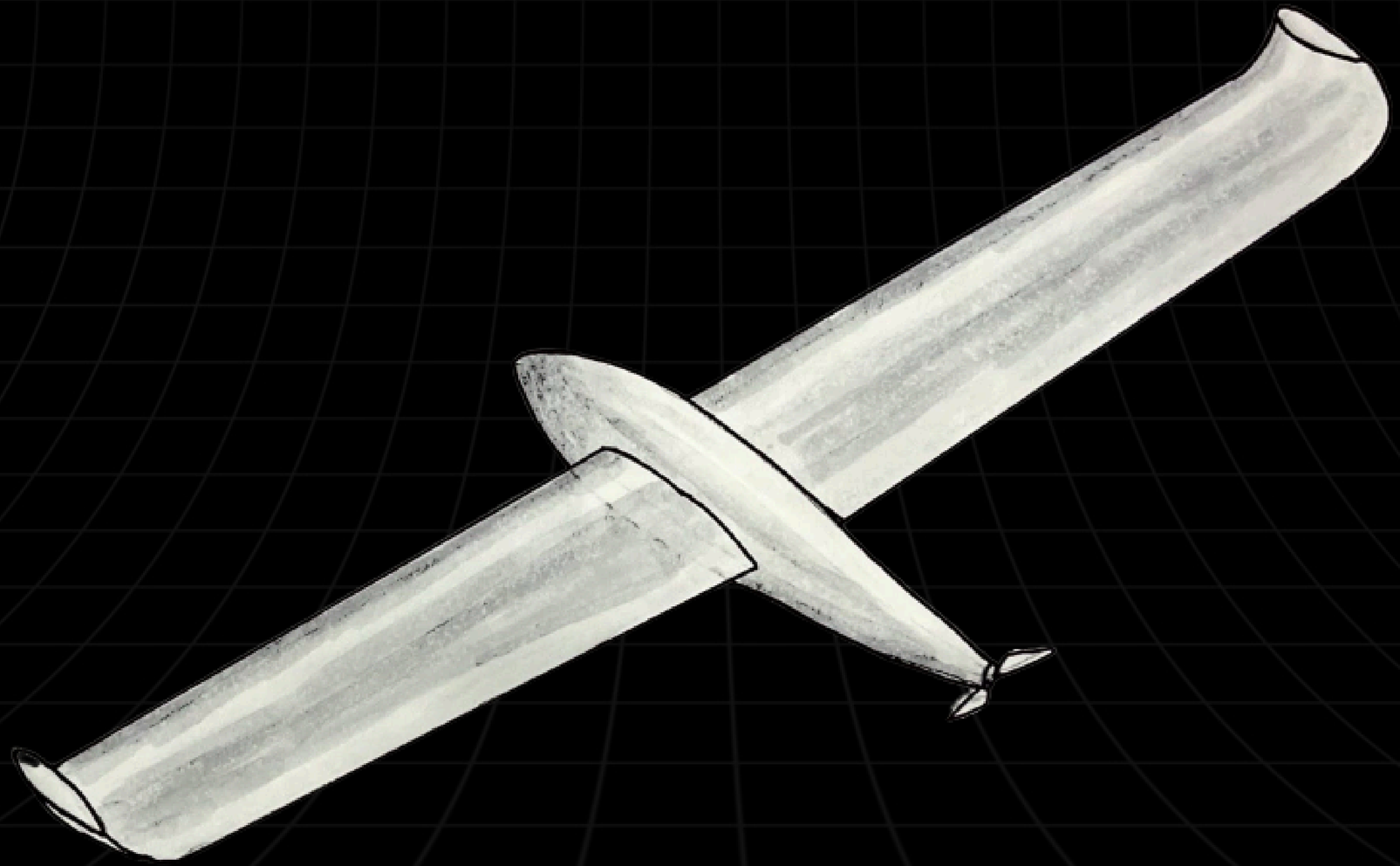
SkyFin VX


Takeoff
6
4
2
0
Fuel Efficiency
Aerodynamics
Landing
Portability

Meeting with industry experts

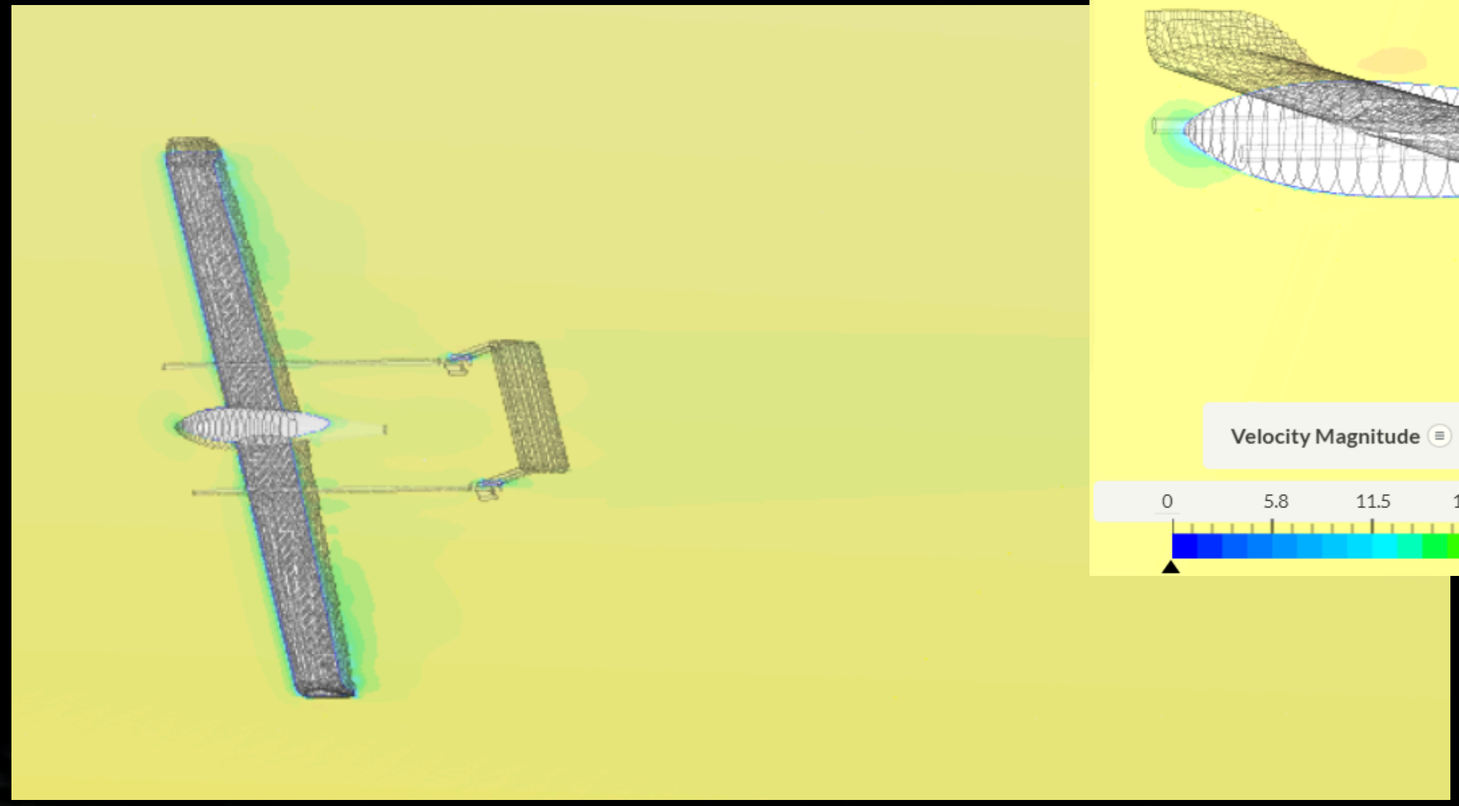


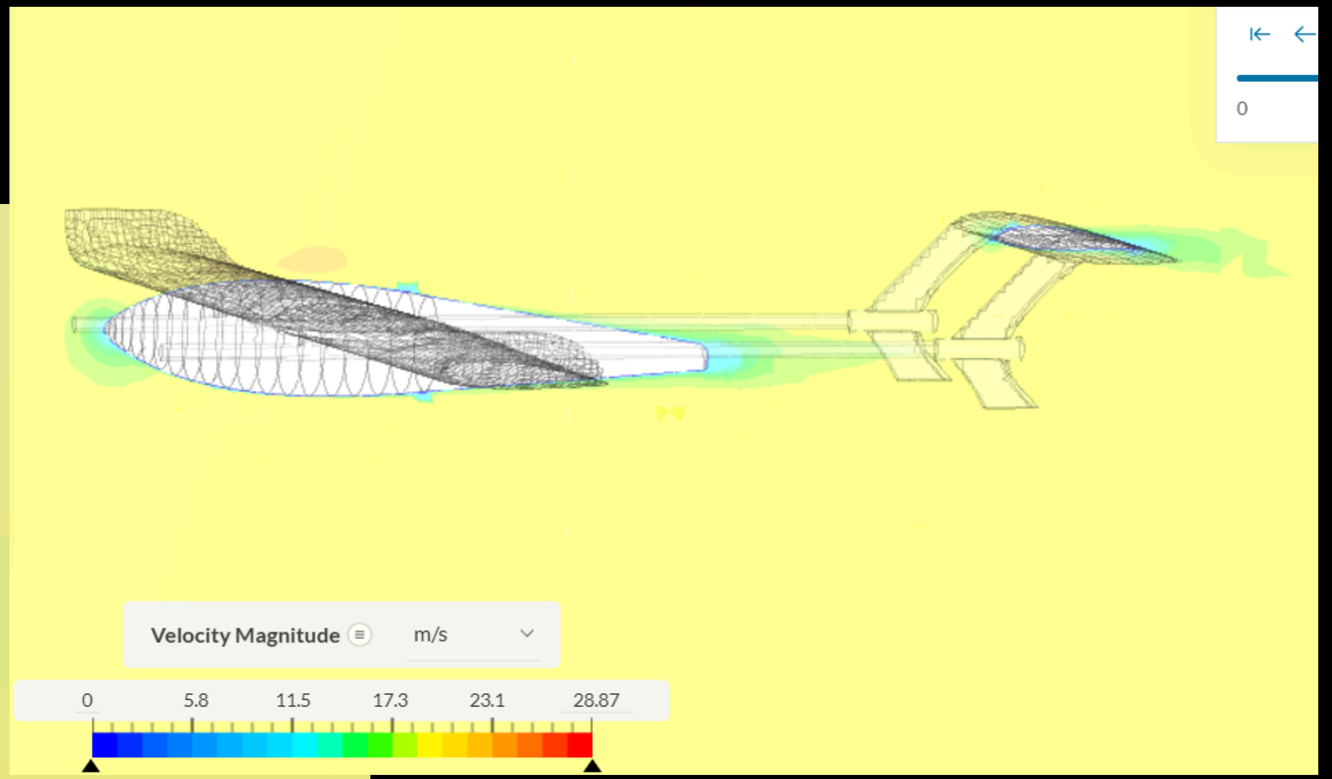
Impeccably sleek.



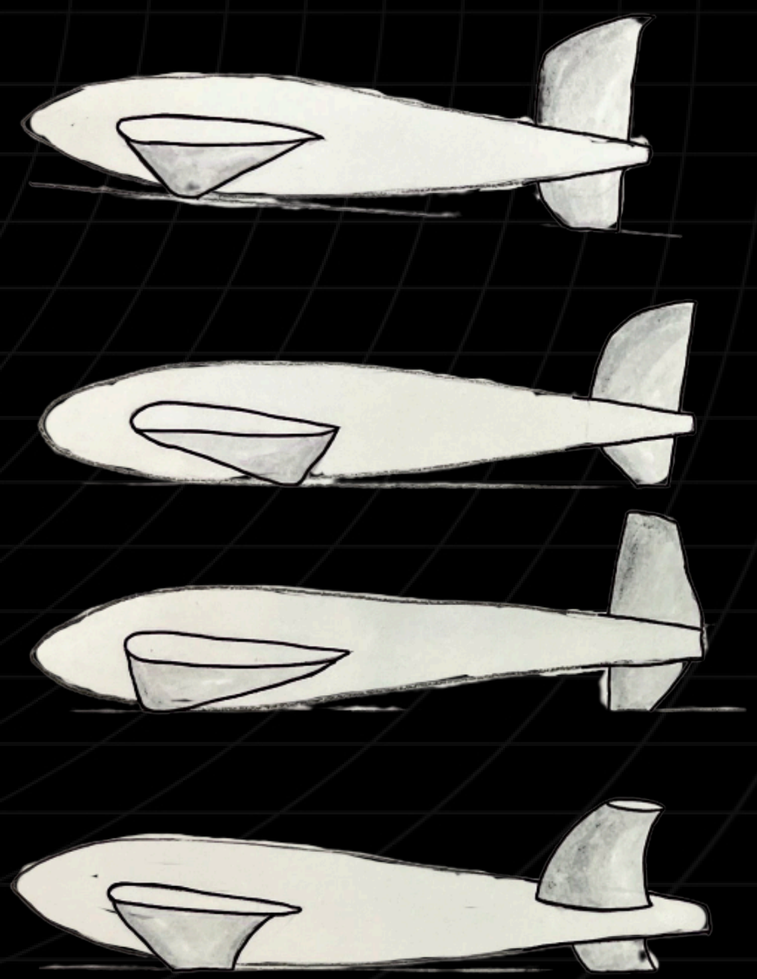
FUSELAGE 2.0

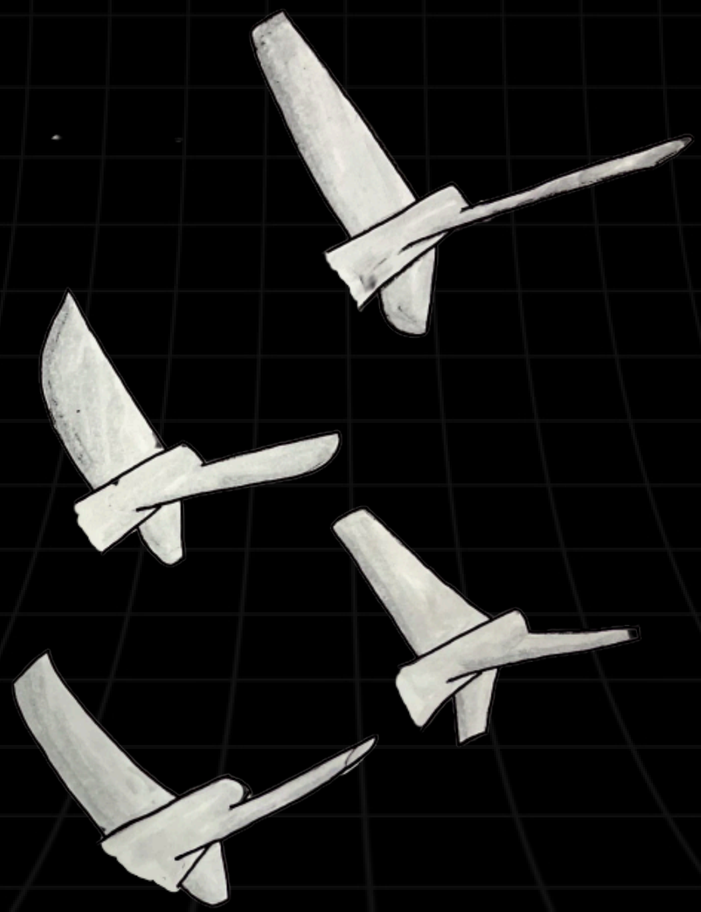
Simscale simulations





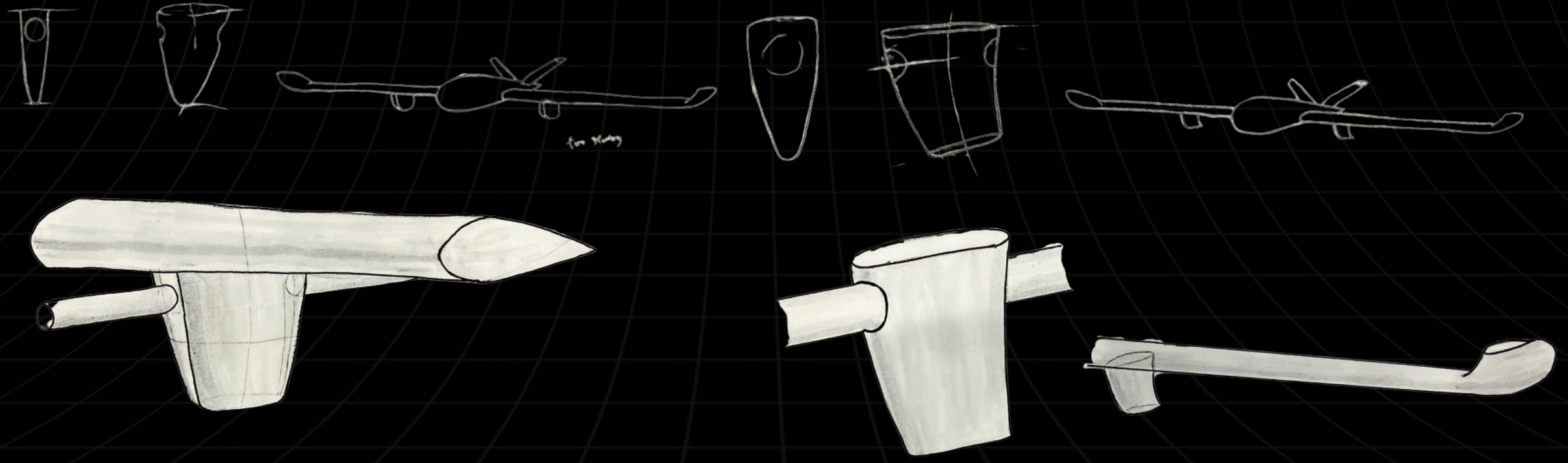
Crazy slim. Irresistable.





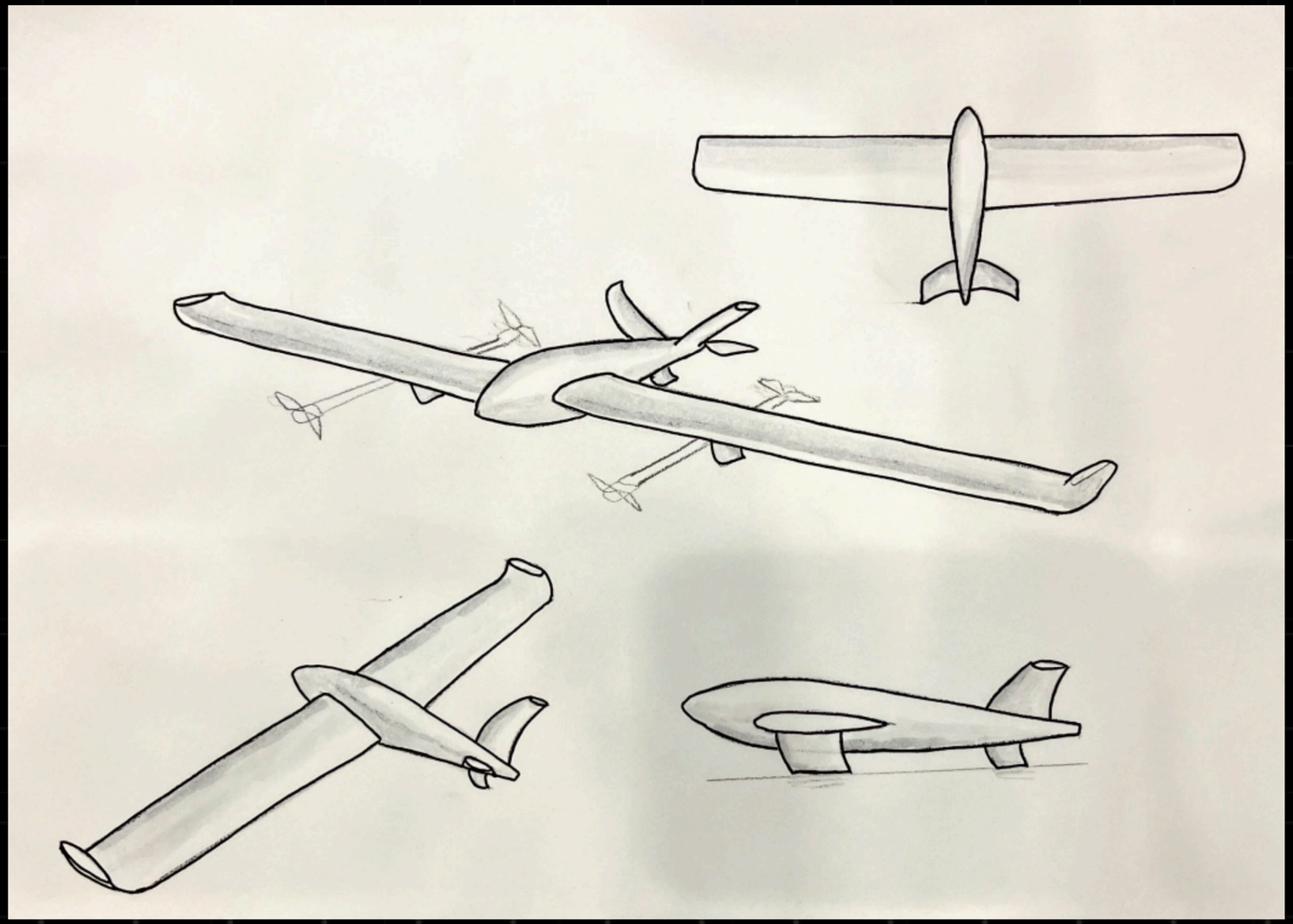
Y-TAIL 2.0

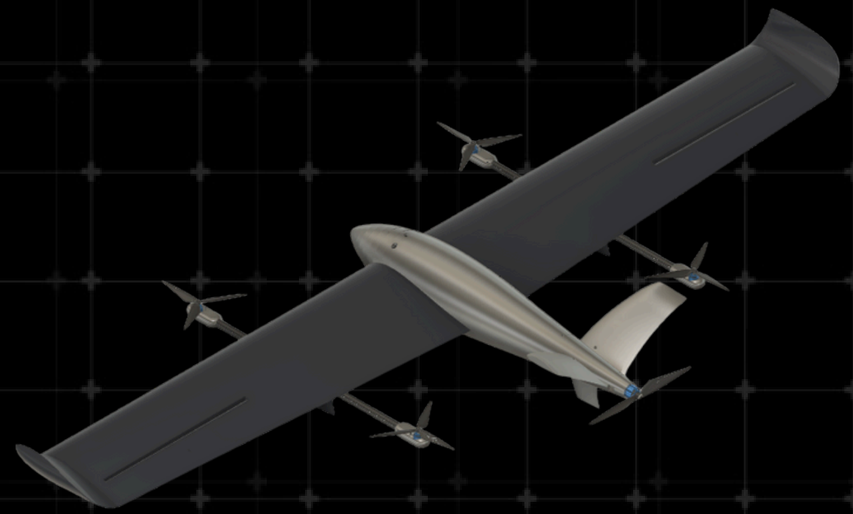
Stability never looked this good.



TOUCHDOWN

IN FULL VIEW



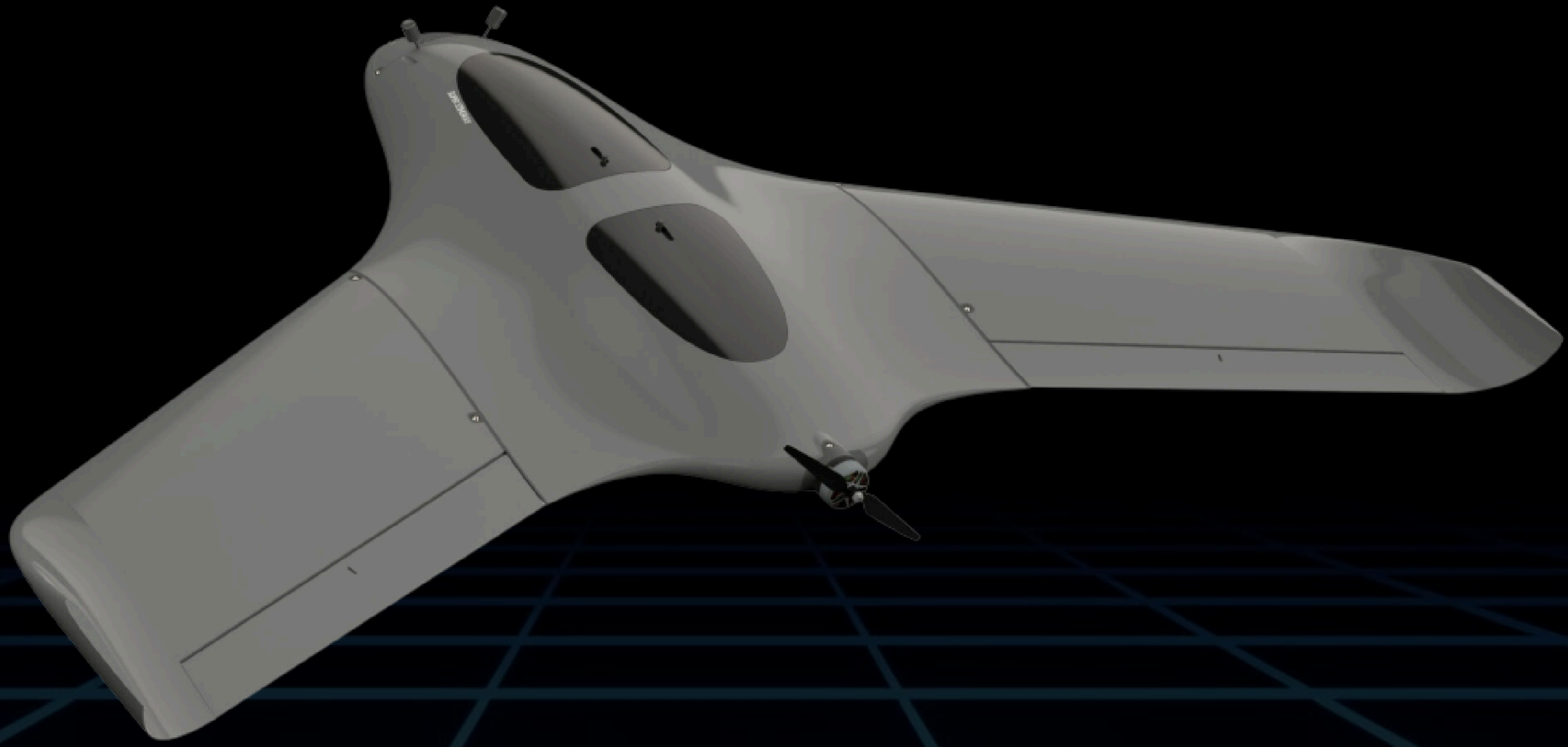


No bad angles. Just pure beauty.

THE FUTURE ISN'T COMING. IT'S HERE.

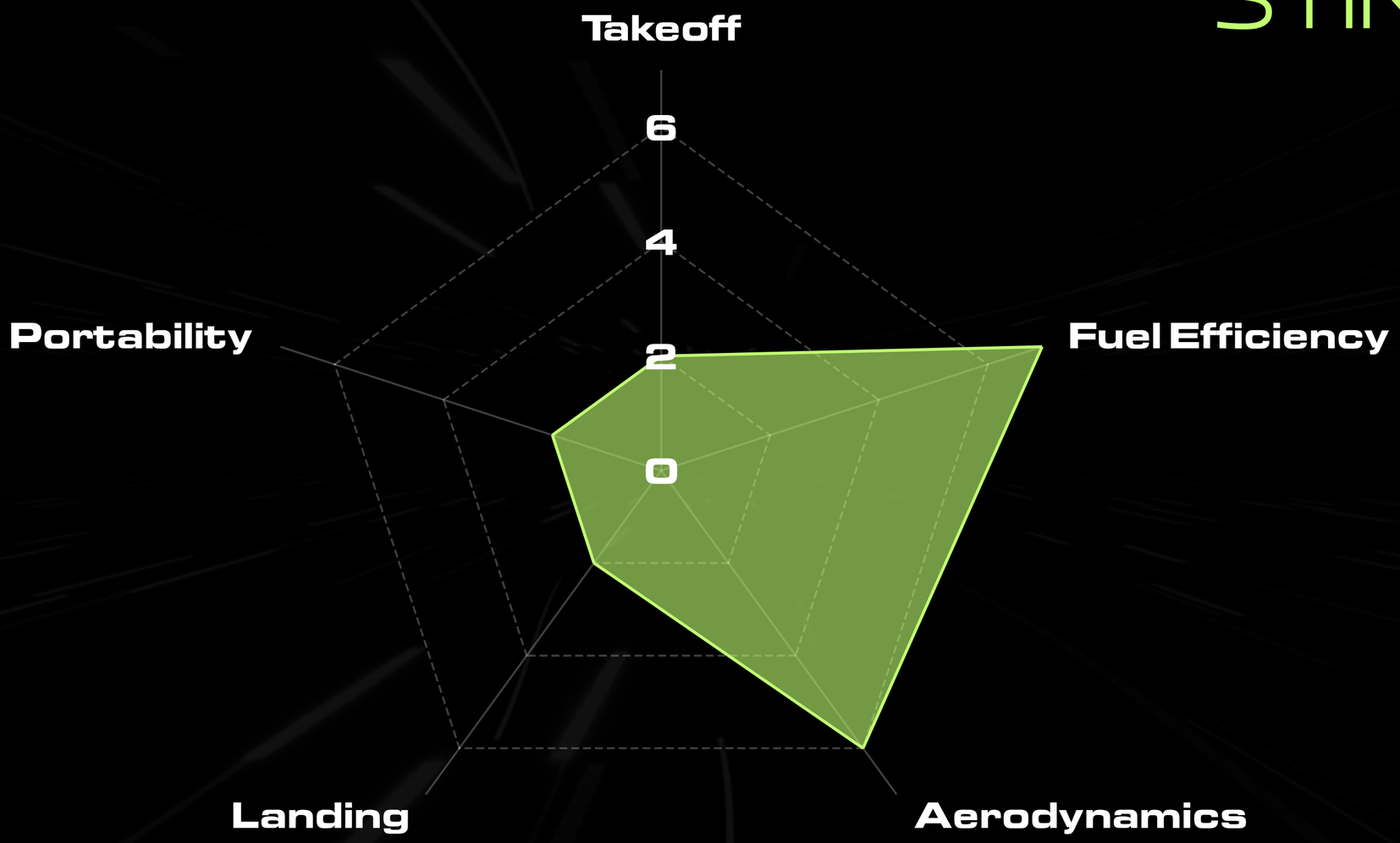
NIKA:ATLAS

THE SUPER STINGRAY

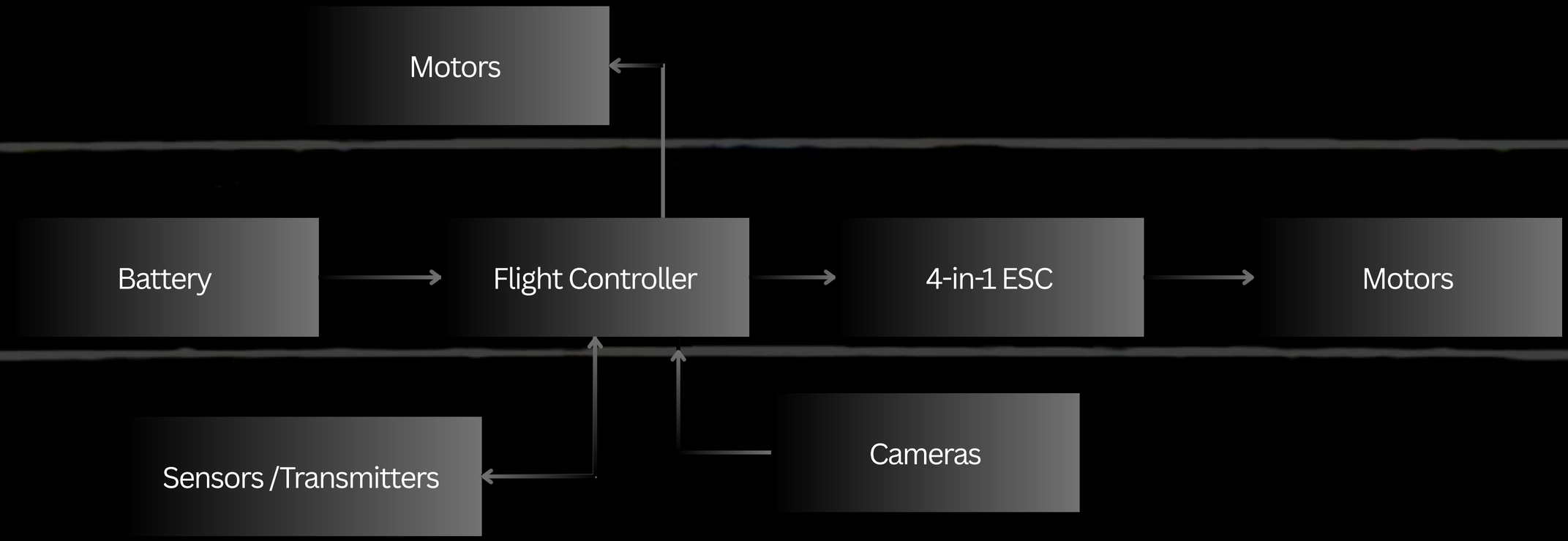


Respect, where it’s due.

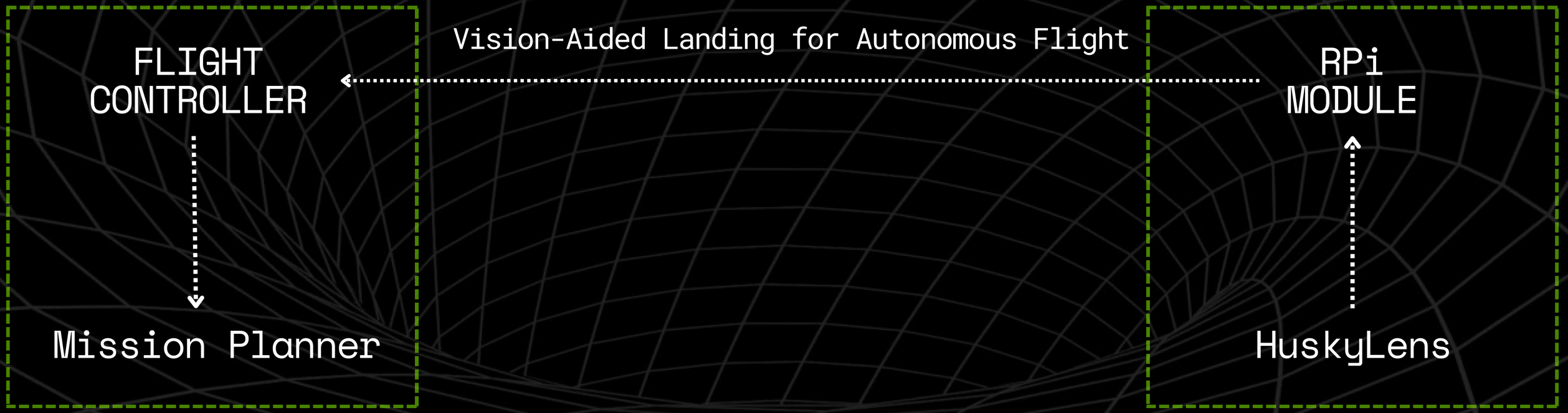
THE SUPER STINGRAY



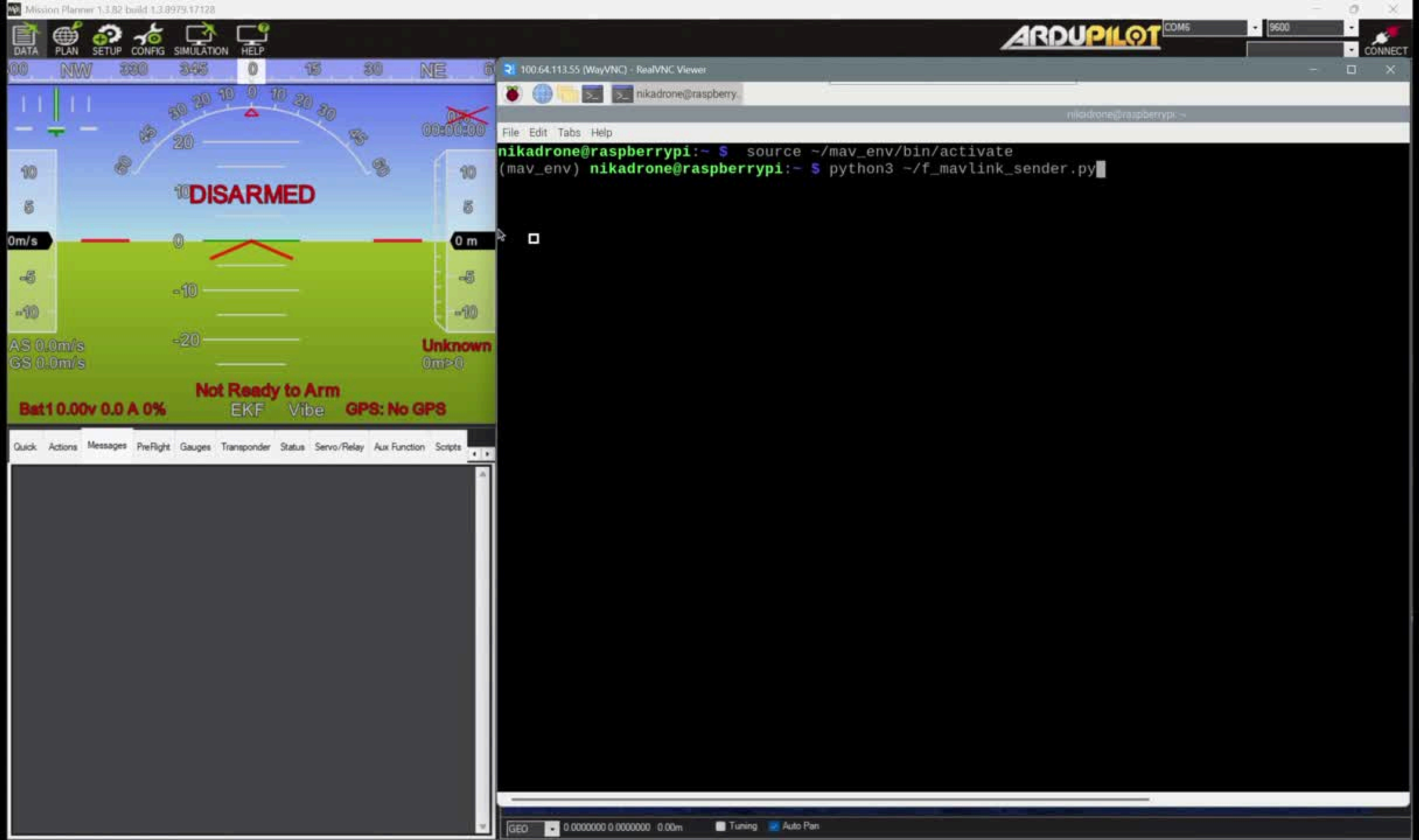
HIGH VOLTAGE: KEEP CLEAR



WIRED FOR FLIGHT.



VISION, LIKE YOU'VE NEVER SEEN BEFORE


Mission Planner 1.3.82 build 1.3.8979.17128
DATA
PLAN
SETUP
CONFIG
SIMULATION
HELP
ARDUPILOT
COM6
9600
CONNECT
NW
NE
DISARMED
0m/s
0 m
AS 0.0m/s
GS 0.0m/s
Unknown
0m>0
Not Ready to Arm
Bat1 0.00v 0.0 A 0%
EKF
Vibe
GPS: No GPS
Quick
Actions
Messages
PreFlight
Gauges
Transponder
Status
Servo/Relay
Aux Function
Scripts
100.64.113.55 (WayVNC) - RealVNC Viewer
nikadrone@raspberry
File Edit Tabs Help
nikadrone@raspberrypi:~ $ source ~/mav_env/bin/activate
(mav_env) nikadrone@raspberrypi:~ $ python3 ~/f_mavlink_sender.py
GEO
Tuning
Auto Pan

DRONE ASSEMBLY

The Super Stingray doesn’t just fly — it clicks.
Locking systems and modular joins teach us how to build smarter, piece by printed piece.
Assembly isn’t just construction. It’s design thinking in motion.

UNPACK LIKE A BOSS.

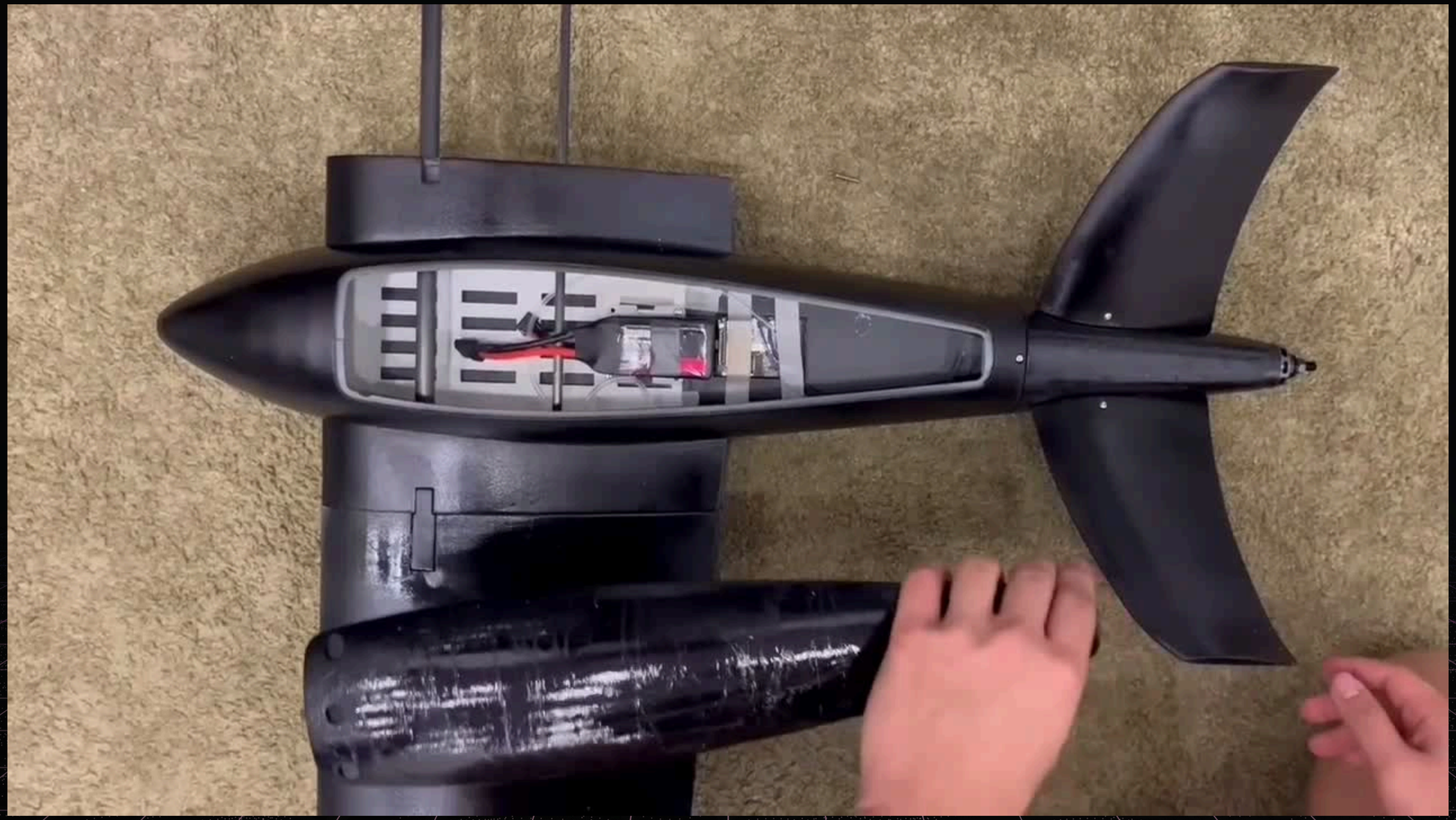
Compacts 1.8m wingspan drone into travel luggage

<5 min assembly

1.8 METERS. ONE SUITCASE. ZERO STRUGGLE.

TAIL ASSEMBLY

HATCH LATCHING MECHANISM



WING ASSEMBLY