

Immortal Data Incorporated

Immortal Data Black Box Status and Future Directions

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IDI is based on the KLRU flight line in Las Cruces



IDI is taking over the space on the left, including behind the reflected helicopter.



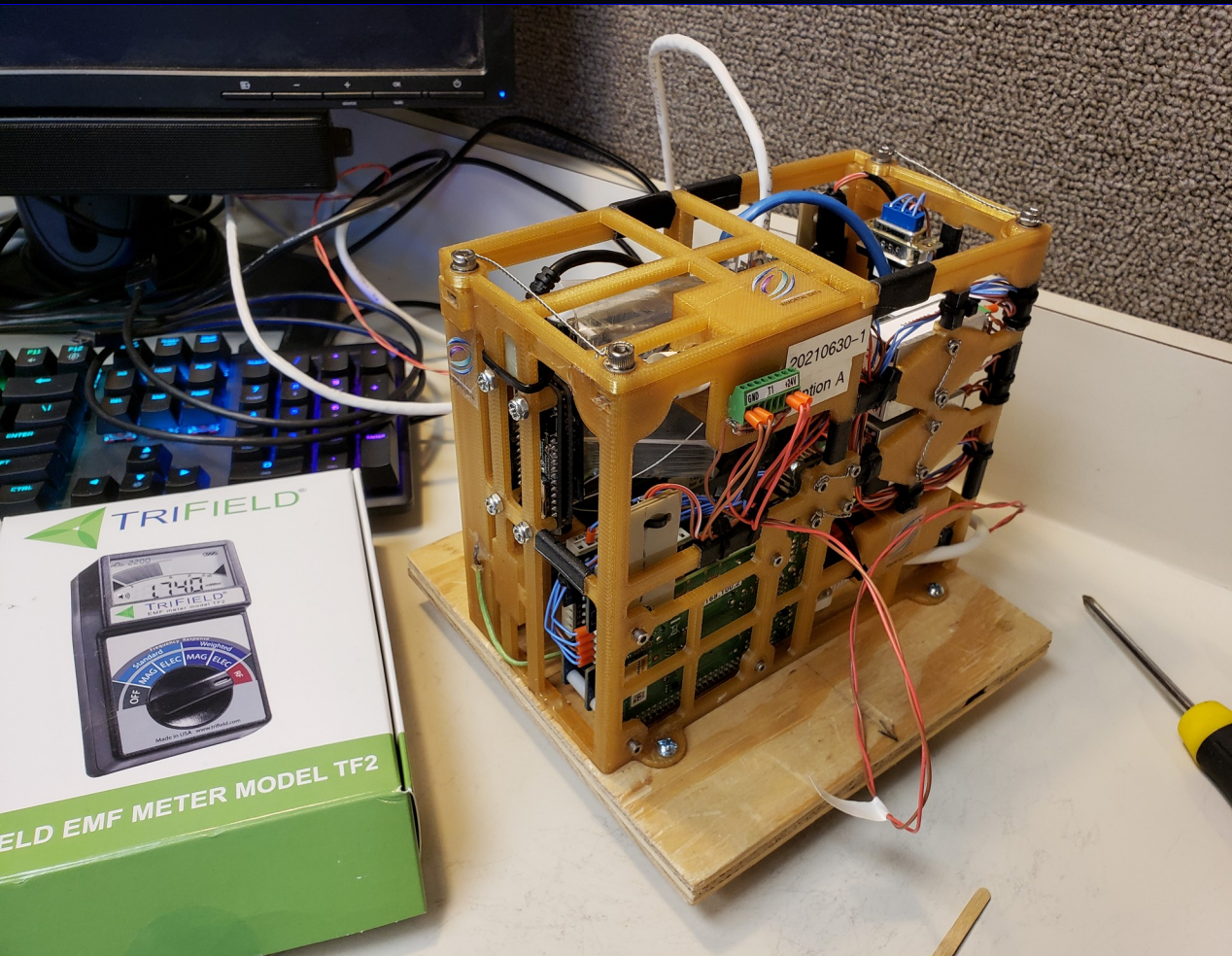
We developed a lab and ground test version of our shipsDaq as an early product for sale



- We 3D printed initial enclosures for a ground based data Acquisition system based on our shipsDaq.
- The unit is extensible to 64 analog inputs.
- The unit shown accepts 16 analog inputs.
- We expect to offer these units for sale to experimenters this year.



The Canary Cage was completed on schedule in August

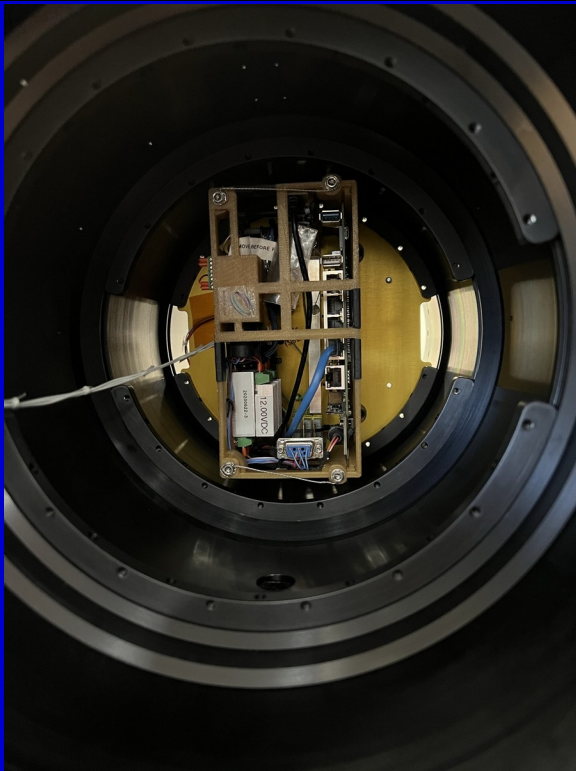


Payload under test in lab

- Due to a limited mass budget we optimized the structure.
- 3D printed Ultem 1010 payload structure.
- Sensor load:
Thermocouples with amplifier, PSIA transducer, NMT Canary II and test beam, 3 axis accelerometer, voltage dividers.



IDI Payload structure with Canary II passed Up Aero Customer Systems Test (CST), April 4-7 2022.

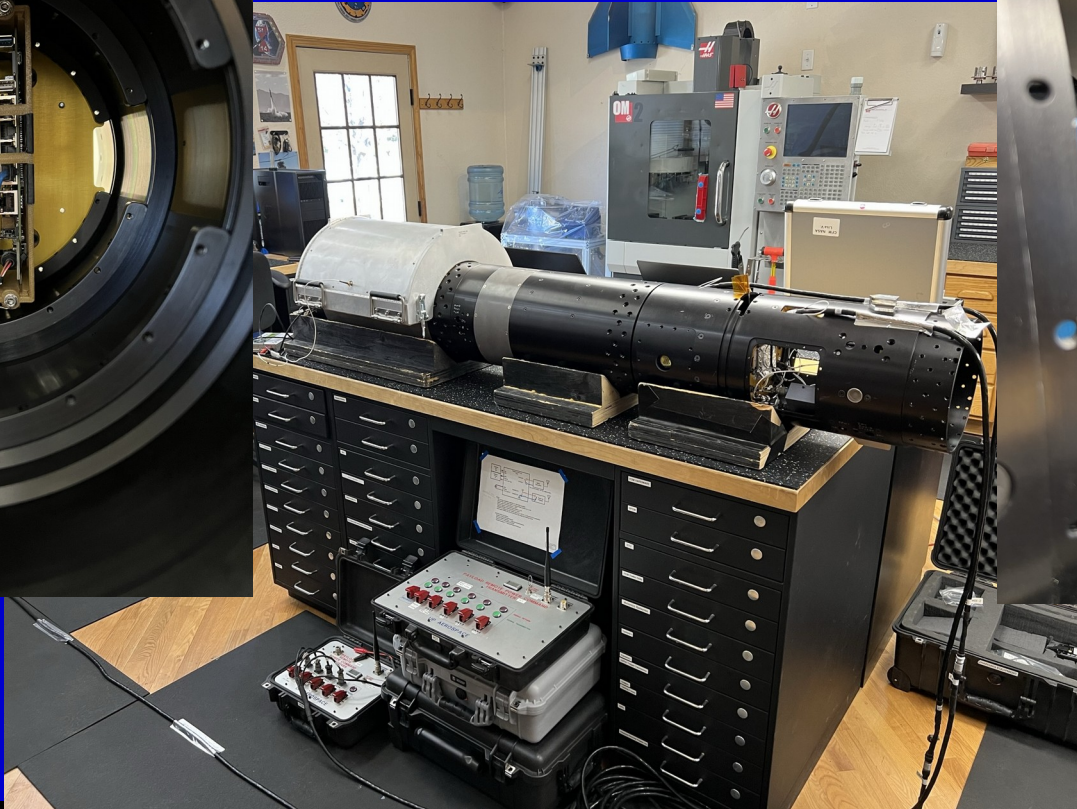


IDI/NMT payload mounted in Up Aero SL-15 launch vehicle.



Closeout plate connection to our payload.

SL-15 payloads under test.



We are working towards re-entry and impact survival capability.

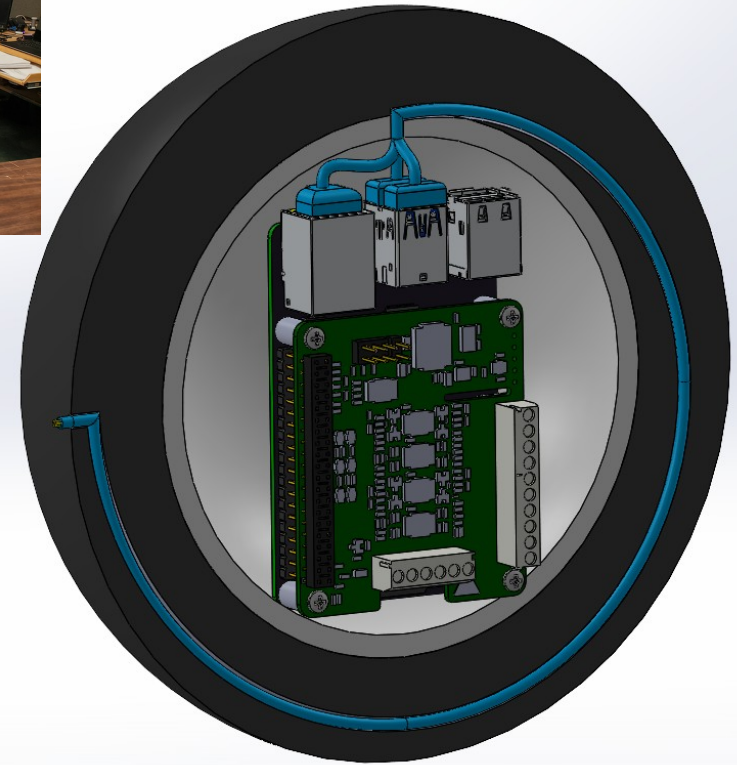
- A team of interns led by Dillon Thomas designed the 3d printed enclosure. Dillon continued working with us after graduation.



- He has been working on the re-entry model for our future orbital black box, seen at right.

- We are also studying high velocity as well as low velocity impactors.

- Our intent is to do initial airdrop tests from ~12000 ft MSL as soon as funds allow.



Going forwards

- With assistance from Livingstone Securities we launched an initial crowd funding capital raise and have thus far secured \$56K. <https://netcapital.com/companies/immortal-data>
- IDI is looking for larger funding partners this year.
- IDI is continuing our relationship with NMT going into the nextGen COE/CST era.
- We are hoping to fund drop tests at high and low ballistic coefficients this year.
- Our payload launch with NASA Flight Opportunities Office under the Auspices of the FAA/AST on Up Aerospace has been delayed until late 2022. We have not been given a new date yet.
- IDI has a customer for a series of large destructive testing experiments of spaceship structures and will assist in collecting the data to allow the customer to define baseline standards.



Immortal Data

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"Data Systems for Deep Space and Time"

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