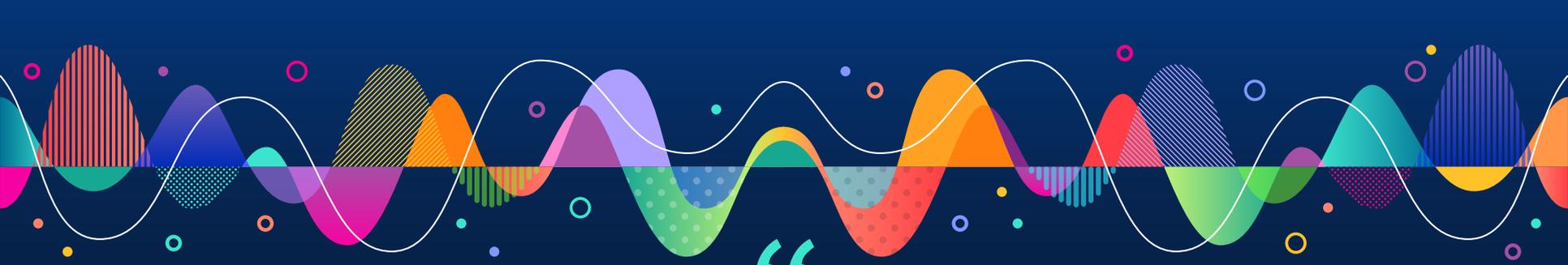


JAMZ Climate Sensor Add-On

BY: DESIGN ALGORITHM 





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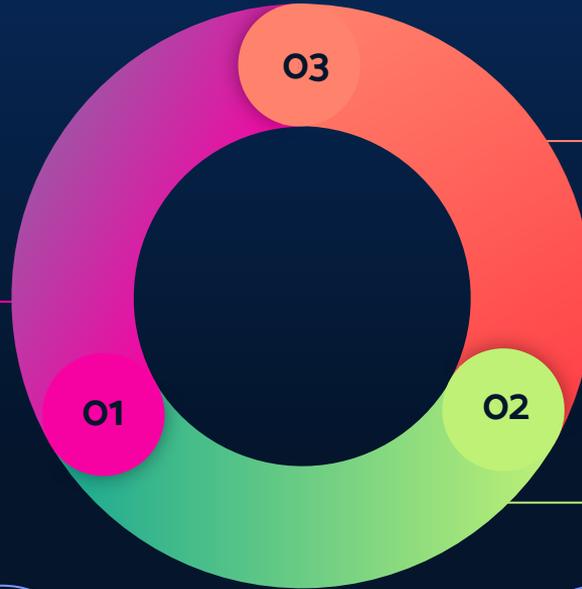
JAMZ needs a **climate sensor** add-on system for a food delivery drone that provides **accurate** and **reliable data** for temperature and humidity values. **Constant communication** to the flight operator is also necessary so JAMZ is able to tell when a value is out of the **desired range**.



OUR PROCESS IS EASY

Attachment:

Sensor casing is mounted with M3 screws on the inner top portion of the styrofoam food delivery box.



Output:

The data collected by the sensor will be sent to JAMZ via serial communication.

Connection:

Using wires, Sensor is hooked up to the Arduino UNO, which then connected to the Raspberry Pi.

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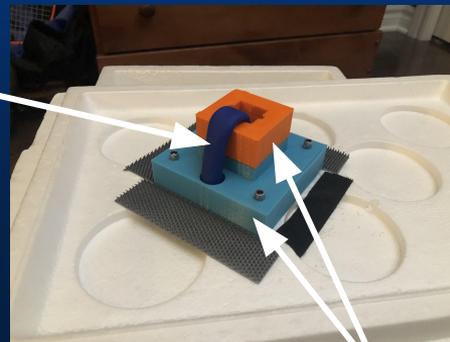
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0:0:29.50s
0:0:30.00s
0:0:30.50s  24.65°C      60.49%      WARNING, HUMIDITY IS TOO HIGH
0:0:31.00s  24.65°C      61.25%      WARNING, HUMIDITY IS TOO HIGH
0:0:31.50s  24.69°C      62.37%      WARNING, TEMPERATURE AND HUMIDITY TOO HIGH
0:0:32.00s  24.70°C      63.28%      WARNING, TEMPERATURE AND HUMIDITY TOO HIGH
0:0:32.50s  24.69°C      64.11%      WARNING, TEMPERATURE AND HUMIDITY TOO HIGH
0:0:33.00s  24.68°C      64.88%      WARNING, TEMPERATURE AND HUMIDITY TOO HIGH
0:0:33.50s  24.70°C      65.68%      WARNING, TEMPERATURE AND HUMIDITY TOO HIGH
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0:0:43.50s  24.78°C      75.65%      WARNING, TEMPERATURE AND HUMIDITY TOO HIGH
0:0:44.00s  24.79°C      76.01%      WARNING, TEMPERATURE AND HUMIDITY TOO HIGH

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Waterproof
Covering

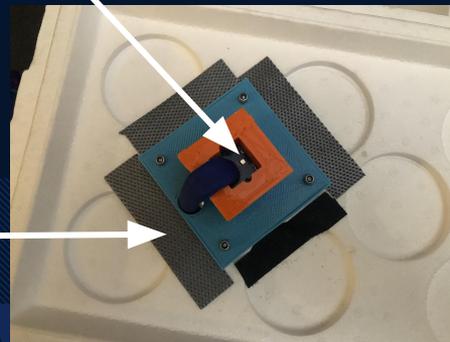


Rubber
Covering for
the Wires



Top and Bottom
Pieces of Sensor
Casing

Sensor



Velcro to Hold
the Waterproof
Covering



Response Time
and Reliability

Data Readability

Consistent
Communication

Compactability

Lightweight

DEMONSTRATION

