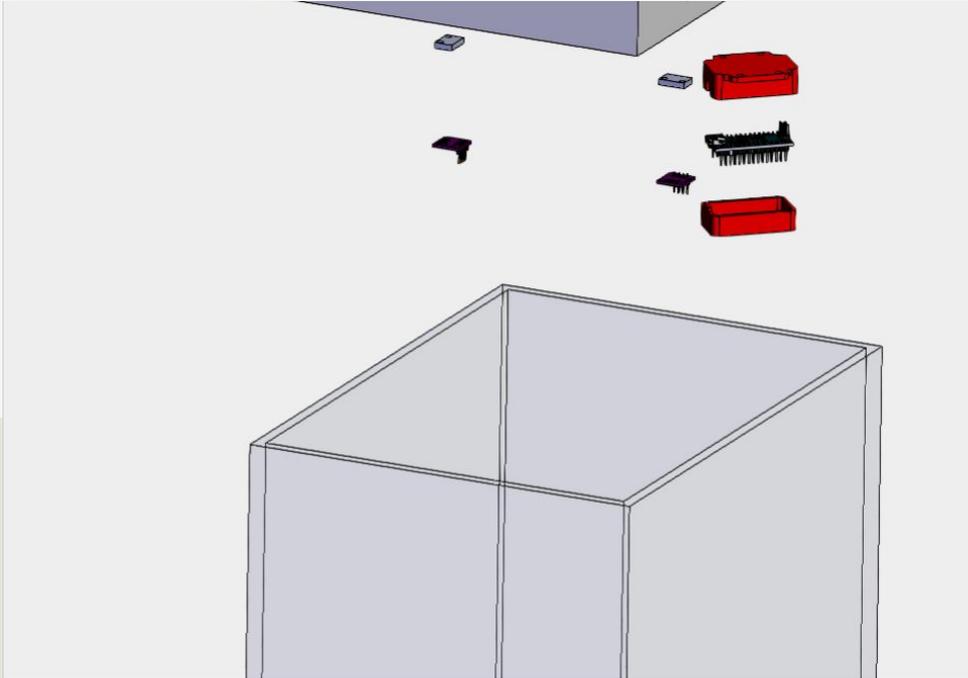


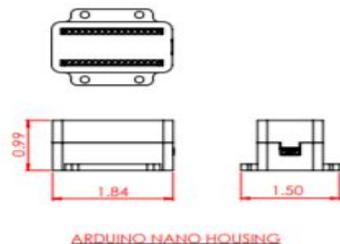
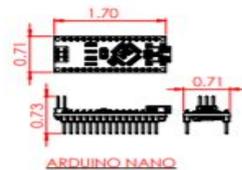
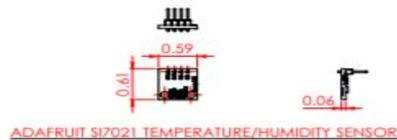
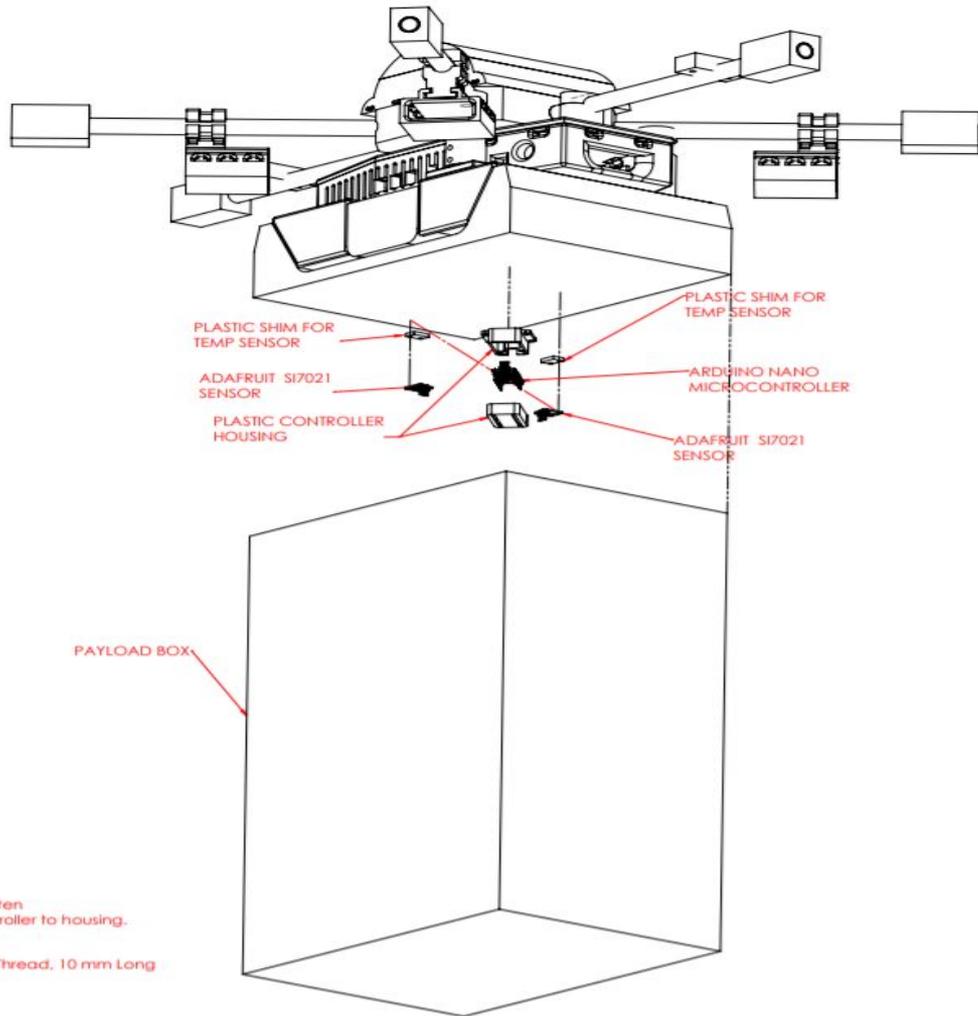
JAMZ Pitch

Group 10 - Supathira, Benjamin, Evan, Gabriel, Alison

Hardware System



- x2 adafruit si7021 sensors
- x1 arduino nano
- x2 plastic shims
- x1 housing case for the nano
- x1 5.5 x 8.5x 1.0 cm breadboard
- x1 multiplexer



NOTES:

1)USE Steel Pan Head Phillips Screws, M1.7 x 0.35 mm Thread, 8mm long to fasten Adafruit sensor to drone and Nano Controller to housing.

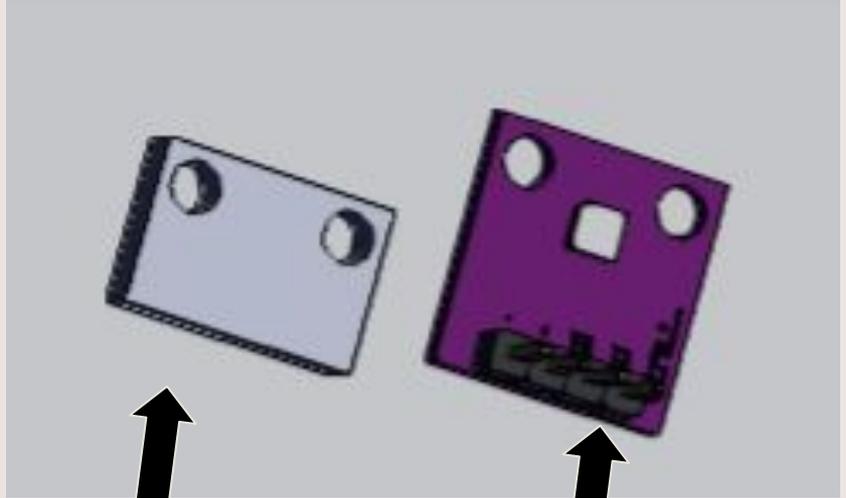
2)Use Socket Head Screw, M3 x 0.5 mm Thread, 10 mm Long to fasten Controller Housing to Drone

<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DESCRIPTION										<p>DESIGNED BY: [Name]</p> <p>CHECKED BY: [Name]</p> <p>DATE: [Date]</p> <p>PROJECT: [Project Name]</p> <p>DRAWING NO.: [Drawing No.]</p> <p>SCALE: [Scale]</p> <p>UNIT: [Unit]</p>
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3D Printed Parts



Housing for the arduino nano

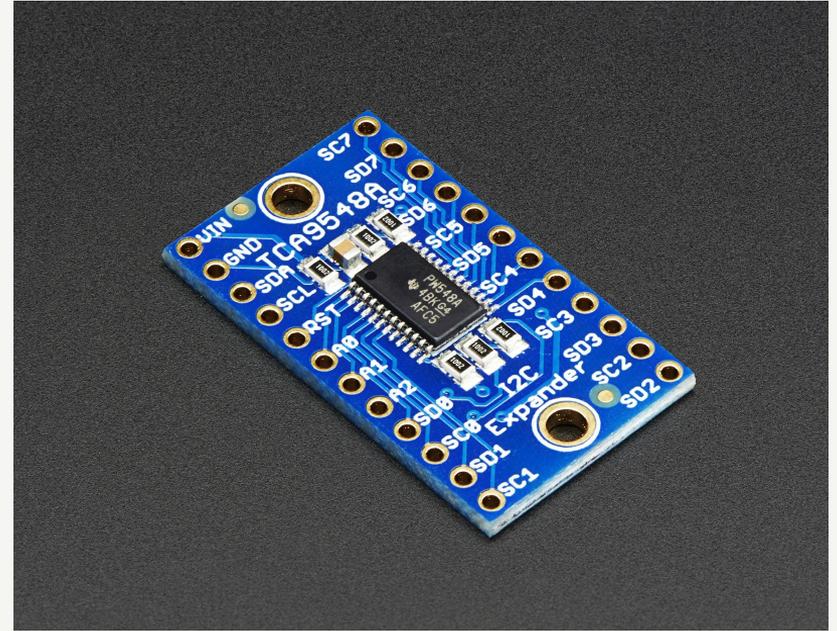


Plastic shim

Temperature/Humidity sensor

Two sensors, one controller

→ TCA9548A 1-to-8 I2C Multiplexer Breakout



Software System

- Code is rather simple: Adafruit library
 - Import Unified Adafruit library
 - Import Adafruit Si7021 library
- Two sensors share the same adresse → implement a mux (8x1)
 - One sensor at a time
- Verify values
- Return the average

Thanks

Do you have any question?

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