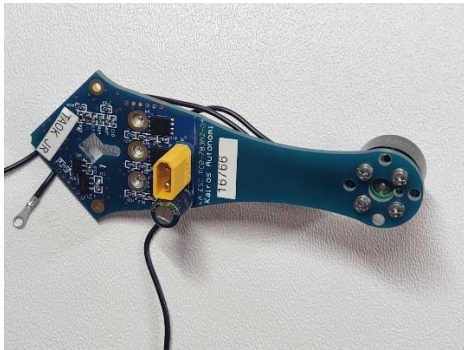


Kairos Micro Stack UAS Assembly April 24 2024



1. Attach motors to the 4x ESC wing boards using 2mm screws and lock washers.

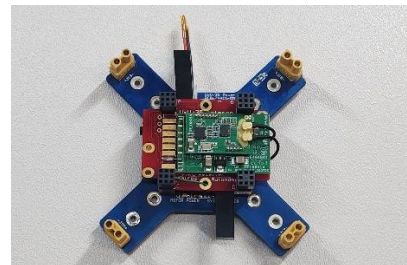


2. Assemble the UxV/35 Boards. Each board has a keyed connector which must align.

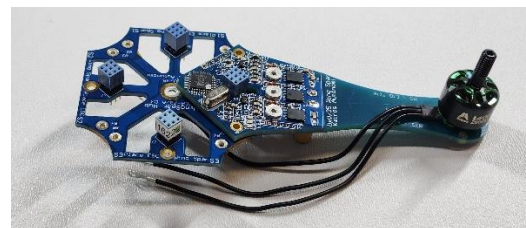
Upper stack: GPS (Top), Mission Controller (Middle), and Telemetry Radio (Bottom)



Lower Stack: FrSky Radio (Top), ESC Power Carrier (Bottom)

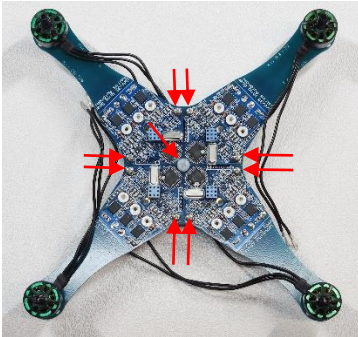


3. Attach the ESCs to the Hub. Be careful during this step to prevent damage to UxV connector. Repeat 3 times.



Kairos Micro Stack UAS Assembly

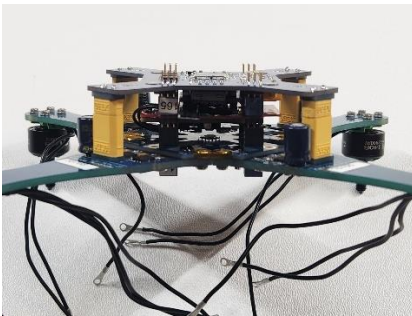
Eight 2-56" screws with lock washers and one 6-32" nylon screw secure the ESCs to the Hub.



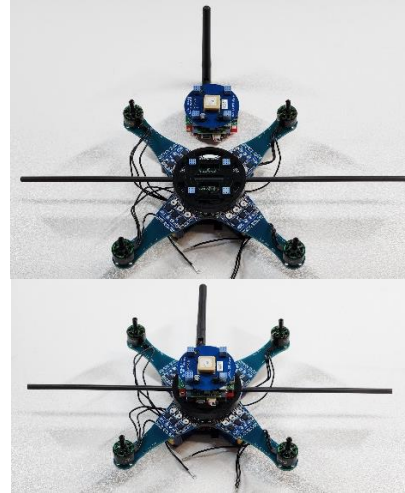
There are now 4 assemblies.



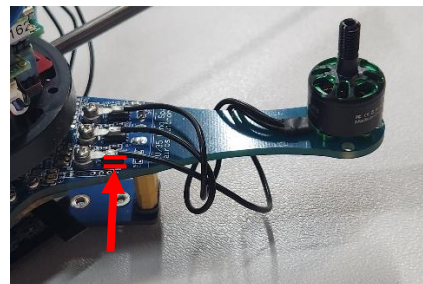
4. Connect the ESC/Motor assembly to the lower stack (ESC power board and radio). Make sure to align the keyed UxV connectors again.



5. Install the gyro board then the upper UxV stack.

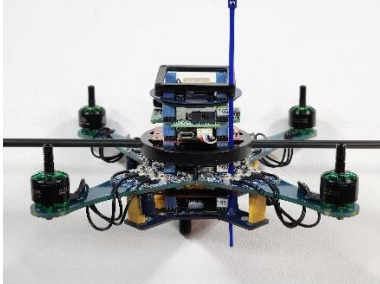


6. Connect the motor wires to the ESCs using 2-56" screws with lock washers. Confirm that the motor metal connectors do not touch the ESC circuit.

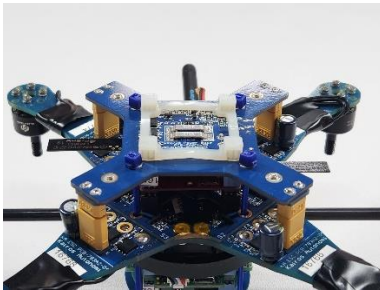


Kairos Micro Stack UAS Assembly

7. Secure the UxV/35 stack using zip ties.



Each corner has a zip tie securing the frame and ESC power carrier board.



8. Tape down the motor wires to prevent propeller contact.



9. Install the propellers after confirming motor directions are correct in ArduPilot Mission Planner.



Version History

Date and Signature	Revisions	Reasons for Revision
04/18/2024 Jack R.	Document was written. (v01.00.00)	
04/22/2024 Jack R.	Document was updated. (v01.01.00)	Update of Photos
6/20/2024	v2	Updated headers and footers

Kairos Micro Stack UAS Assembly