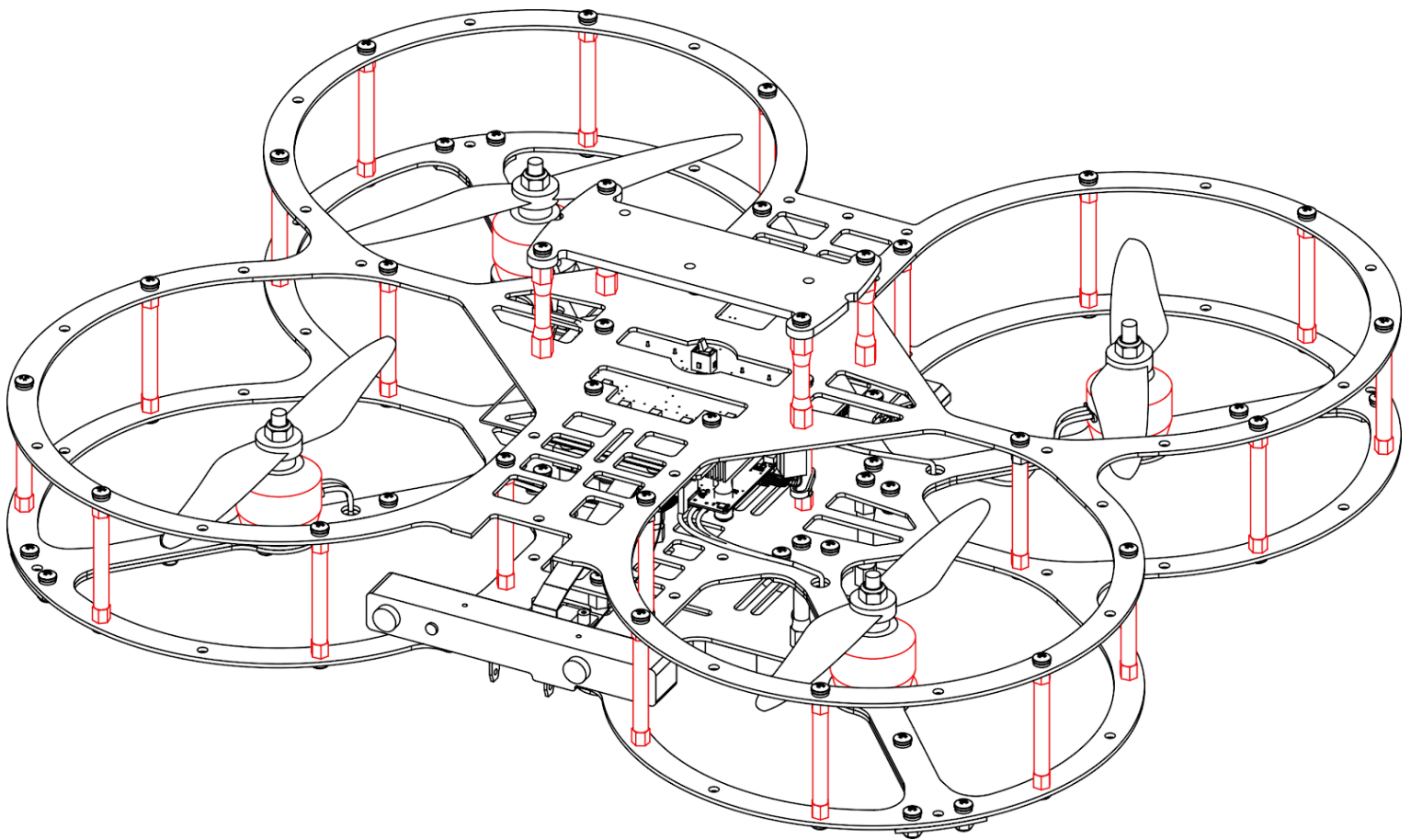# QUANSER
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Autonomous Vehicles
Research Studio

Guides and Resources: Basic IO - QDrone

V 1.0 (June 2018)

What this series covers

This series presents details on basic IO with respect to the QDrone. It will cover writing to the motors and LEDs, and reading from the IMU and cameras. Ensure that you have followed all the steps outlined in the Research Studio Setup documentation series, as well as understood the Guides and Resources Hardware series.

1. Motors
   Writing commands to the QDrone's motors

2. LEDs
   Writing commands to the QDrone's 6 LEDs

3. IMU
   Reading data from the QDrone's IMU as well as measuring battery voltage

4. Cameras
   Capturing images from the *RealSense RGB-D* as well as *Optical Flow* cameras.

Document	Completed
Motors	☐
LEDs	☐
IMU	☐
Cameras	☐