

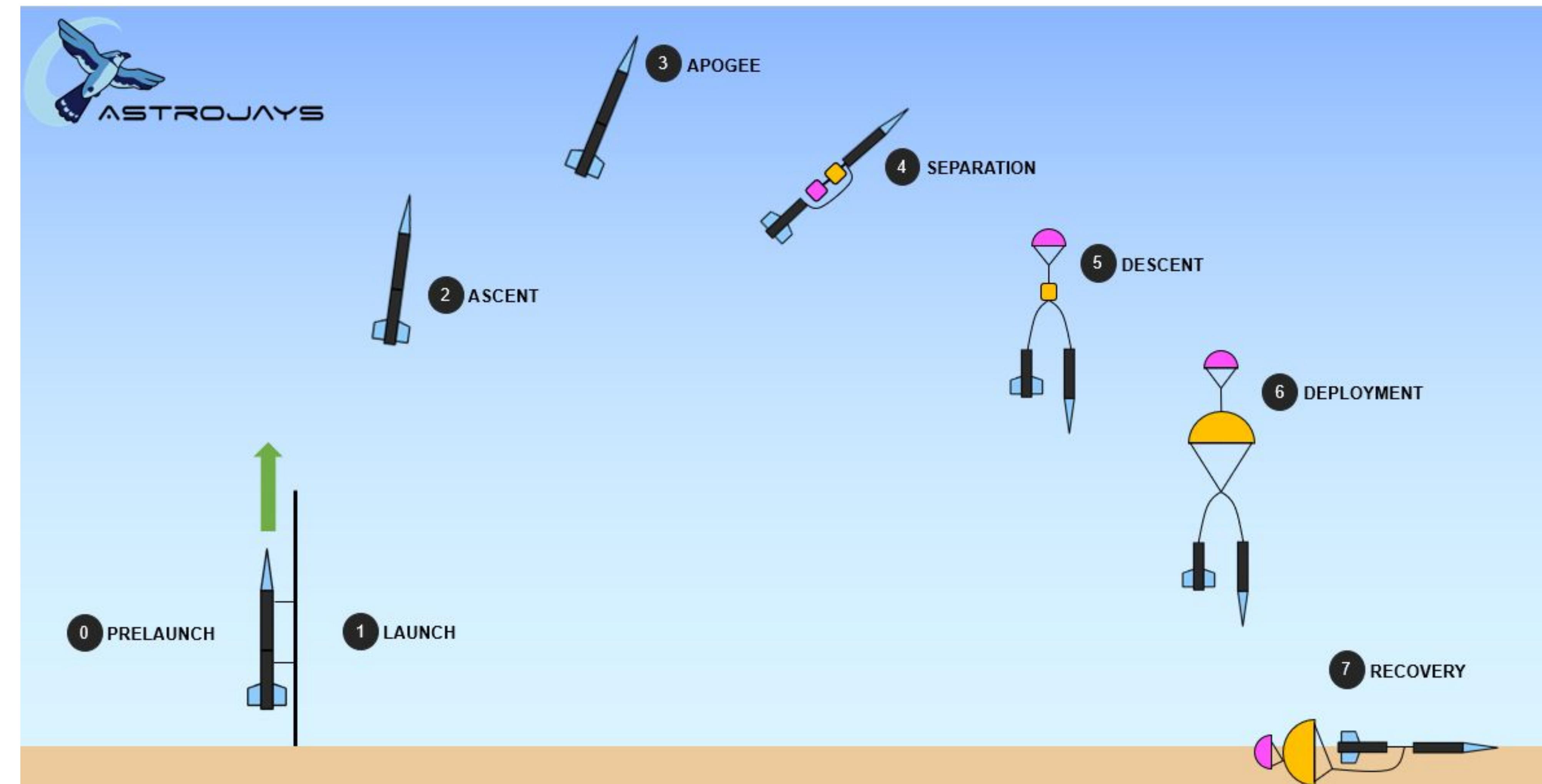


# ASTROJAYS

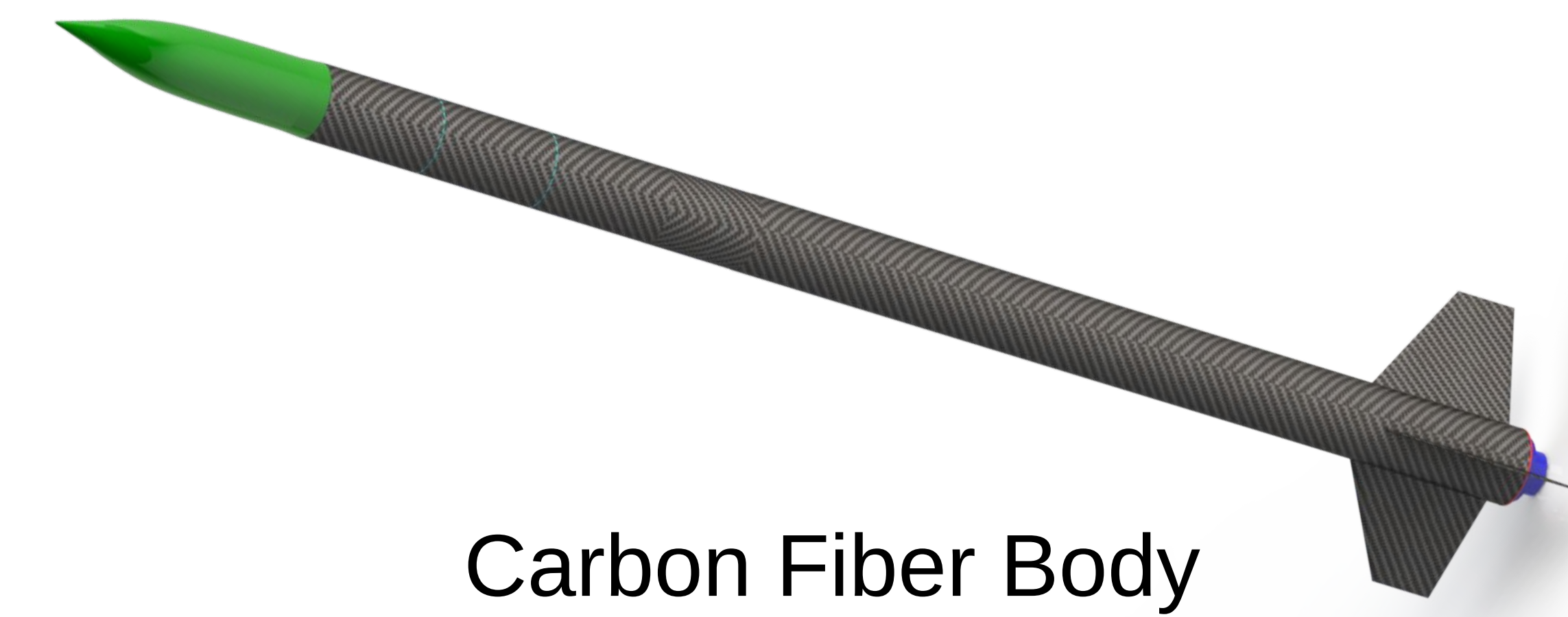
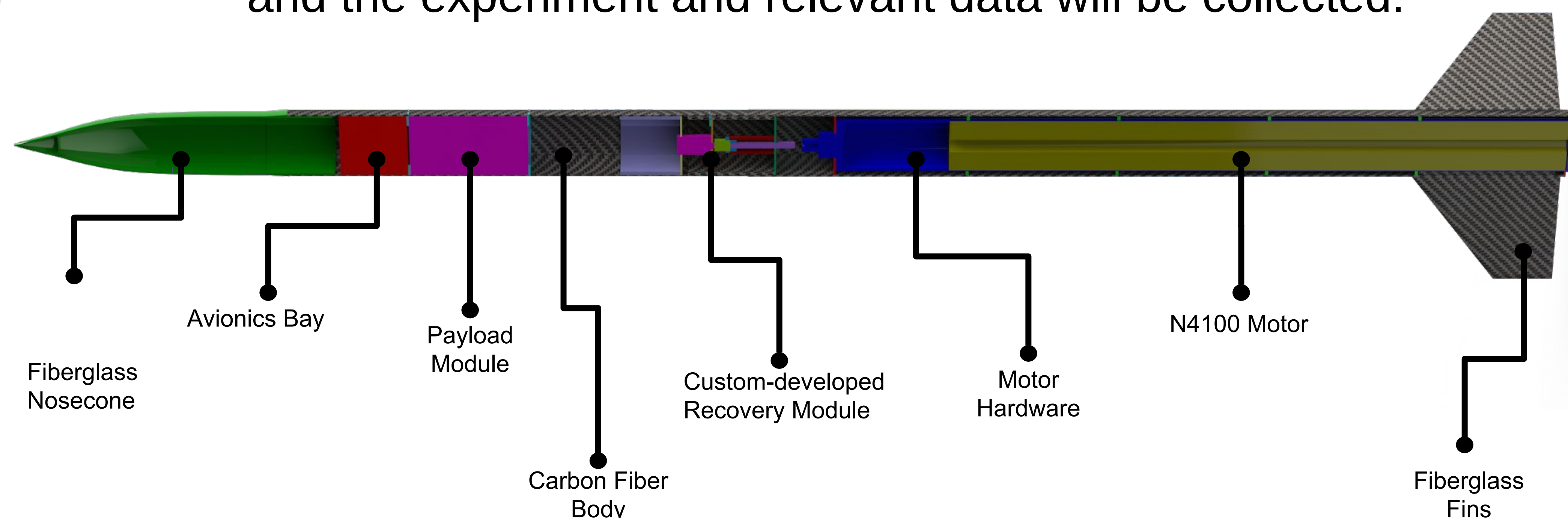
## The Johns Hopkins Rocketry Team

### WHO WE ARE

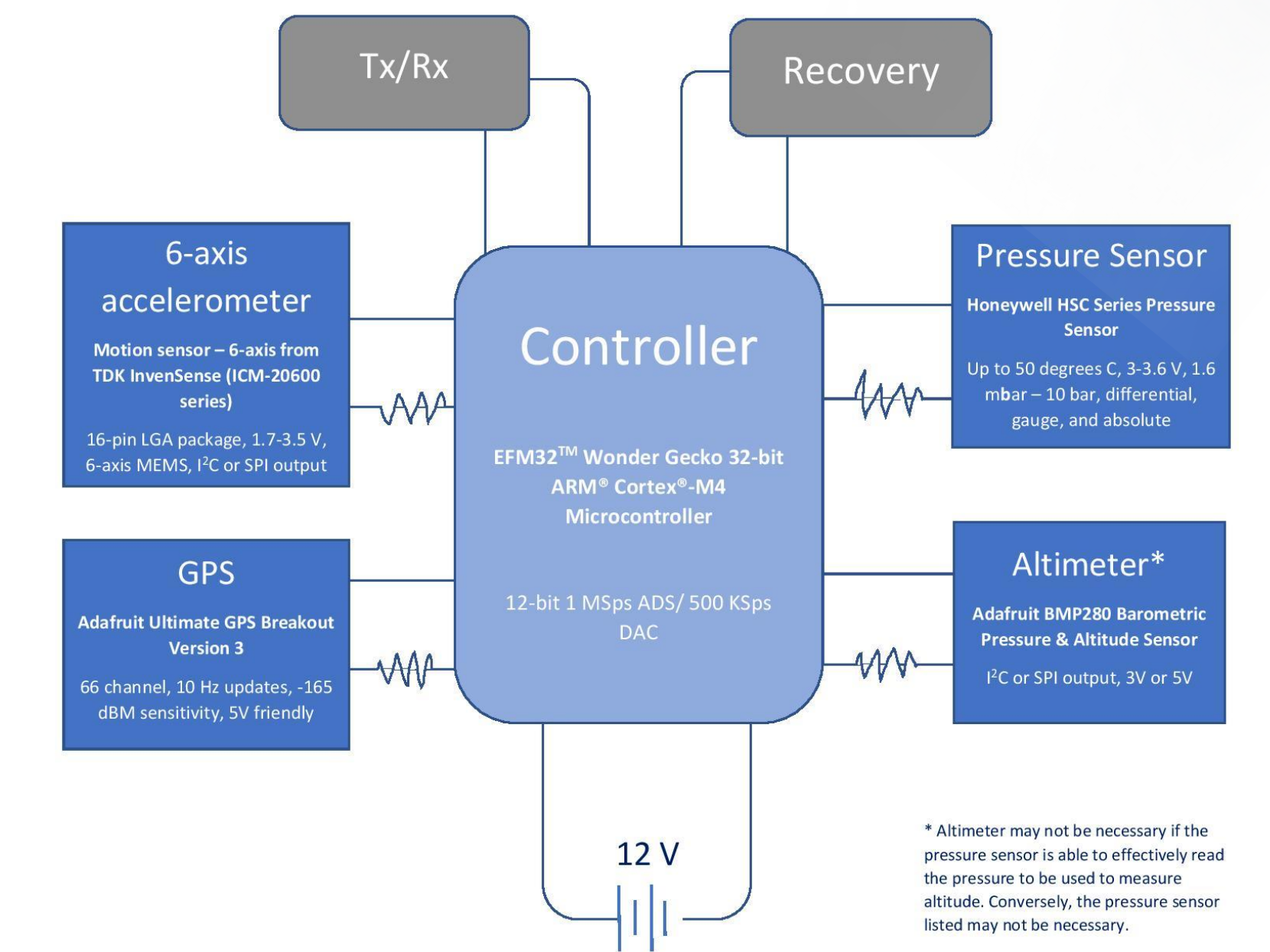
The JHU AstroJays is a high-powered rocketry team of students from all majors and skill levels. Our mission is to improve upon an innovative science and engineering community for rocket and space science enthusiasts at Johns Hopkins, and to provide more opportunities in aerospace and related disciplines for students of all levels.



Our rocket, Down To Fly, is intended to fly to 30,000 feet. After it is assembled according to our predetermined checklists, it is launched using an N-class motor, which will burn for around 5 seconds. When burnout has been detected, our payload, an experimental microfluidics device intended to separate nucleic acids from blood, will activate, running its experiment in the microgravity experienced near apogee. At apogee, our SRAD separation system will activate and deploy our drogue parachute. 1,000 ft AGL, our main parachute will be deployed. After a soft touchdown, the rocket will be recovered by a ground team and the experiment and relevant data will be collected.



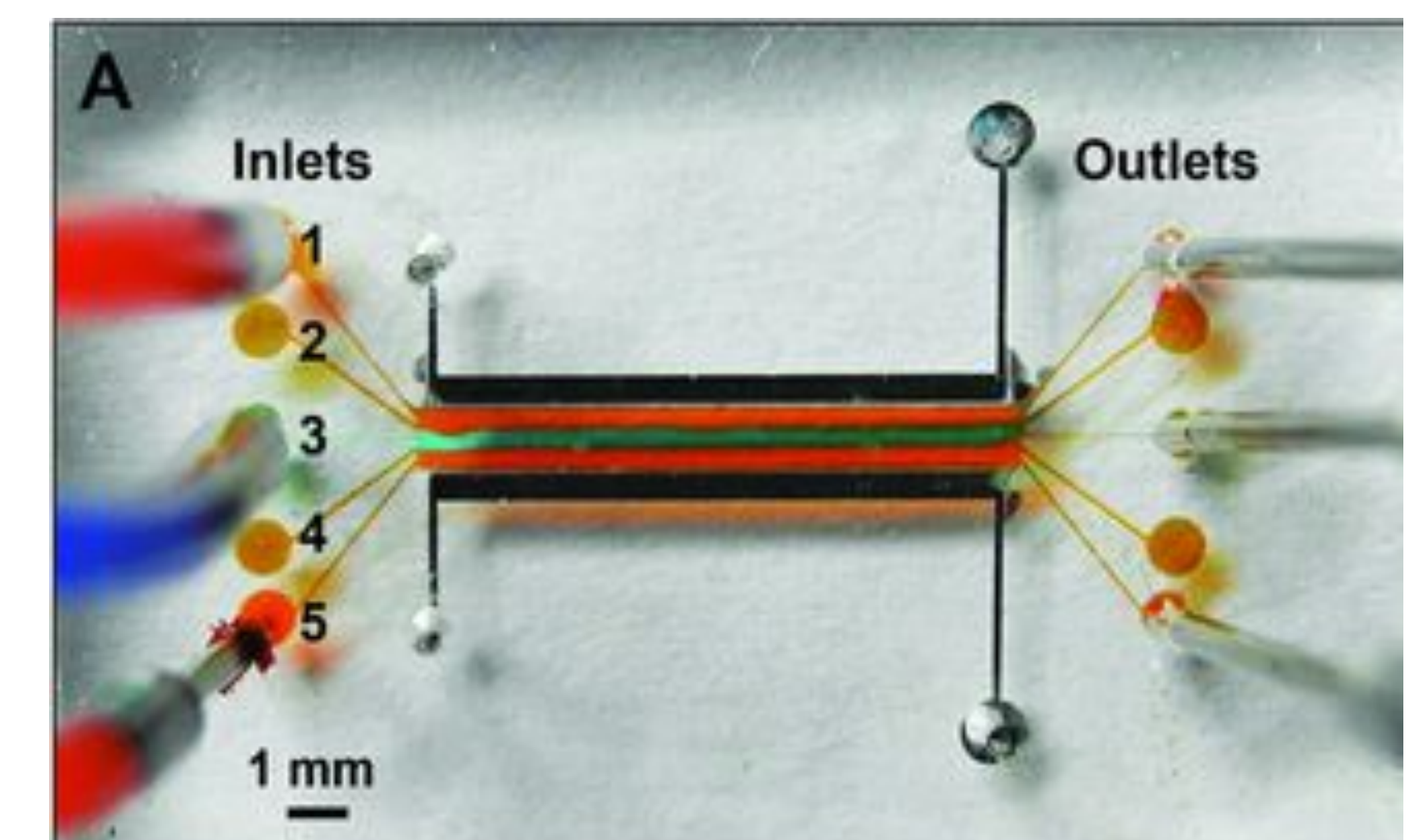
Carbon Fiber Body



Avionics



Reusable Stage Separation



Microfluidics Device

### MANY THANKS TO OUR SPONSORS!



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