Arduino-Based Self-Guided Satellite Recovery System

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This is an Arduino Based Self-Guided Satellite Recovery System. It helps falling satellites that are entering the atmosphere reach their destination safely and accurately through the automatic-navigation algorithm. After looking at one of the NASA’s parcel project experiments, we were curious if we could make a falling object land in a safe, designated place. With this question in mind, we started our project. Our system is not limited to our hardware (can-sat). We have opened all the design and code as open source, so everybody could apply our solution to their systems. We can apply this system to many objects. In reality, supplies can be sent to places that are difficult to access, such as disaster areas, or applied when small objects such as drones fall. But because our system can be applied to all objects falling from the sky, if we build a perfect system, we can use it when we send packages from the space station, and ultimately when a person's plane or satellite drops off.

Awards Won: