**Arduino Quadcopter Project**

* I have been working on a side project outside of school. It is to building a low-cost quadcopter capable of self-balancing and maintaining stability. With the objective of keeping it on a low budget, I came up with a design and have put together a frame using balse-wood. The control system consists of an Arduino Uno board, with accelerometer and gyroscope sensors taken from Wii remote extensions as an IMU unit. As you can tell, the build is not yet final.
* Currently, I am working on reading and filtering signals from the sensors, and producing useful data for stabilizing the aircraft. I must admit this is a tough challenge. However, I am really enjoying the experience of turning code into an exciting physical application.
* Below are some pictures of the quadcopter in its current state. I had been using different-colored pairs of props to indicate orientation, until the flight turned sour and the black props shattered into pieces… So please don’t mark me down for ‘Lacking design skills’!
* Jokes aside, thanks for your interest!

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