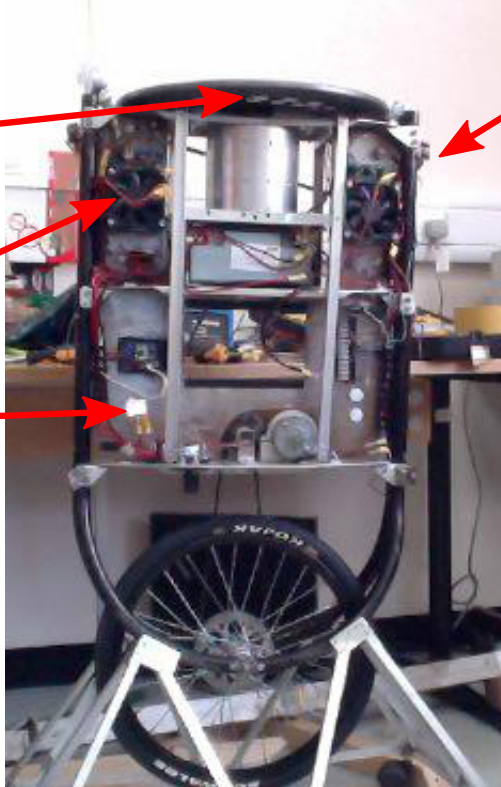quadrature encoder on flywheel

flywheel motor controller

power switch

cutoff buttons

MEMS gyroscopes and accelerometers

I2C voltage level converter

Arduino microcontroller