

Names of students in the group: Eric Backman

Exact title of the project: Quadrocopter Flight Control

Advisors of the project: Dr. Malinowski

No more than 8 lower case letter acronym for the project: qfc

University login name of each student in the group: ebackman

A brief description of the project:

This project will use the quadrocopter constructed last year and will start by getting it to fly. The PWM outputs on the BeagleBoard don't work very well so an additional light weight microcontroller will be added to send the PWM signals to the built-in flight controller. This microcontroller will receive commands from the BeagleBoard. Once it is operational, simple controls and sensor integration will be added to program basic flight patterns and object avoidance which will allow for semi-autonomous flight.