What is CUUAV:

Cornell University UAV team is a group of undergraduate engineering students who work together to design, construct, test and eventually fly an autonomous fixed wing aircraft in *AUVSI's International Student Unmanned Aerial Vehicle Competition* . The competition was first held in the summer of 2002 at Webster field in Maryland and Cornell came home with first place. The plane must complete a series of tasks including way point navigation via autonomous flight, target identification, and much more. This year will mark the third year of a quickly growing competition that we are very excited to be a part of.


Prototype platform:

* Sig Rascal 6200 airframe, 100" wingspan and 30cc gas engine.

* PC-104 form factor 800Mhz crusoe processor runs on-board autopilot

* RS-232 interface to flight sensors such as Gyro, GPS, Pressure.

* CCD Camera and 430mhz HAM-TV video telemetry subsystem

* Uplink/Downlink via 918Mhz serial telemetry and custom packets.

Innovative software:

*Embedded XP runs Custom autopilot developed in VS.NET(TM)

*Interface with MS Flight Simulator for low risk, low cost testing.

*Customizable GCS.

*Flight tracking and way point setting using PocketPC(TM)

2004-2005 Objectives:

* Move to a delta wing configuration.

* Vision Processing

* Assisted takeoff/Parachute Landing
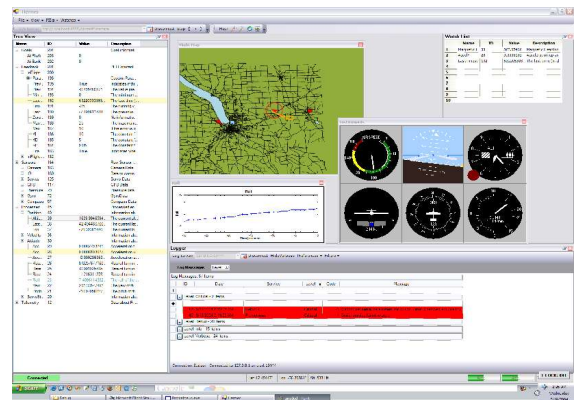
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For more information, visit our website at
WWW.CUUAV.ORG
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