UNIVERSITY COLLEGE SEDAYA INTERNATIONAL

SCHOOL OF ENGINEERING

FINAL YEAR PROJECT

FINAL REPORT

UAV TELEMETRY SYSTEM

STUDENT'S NAME : TIONG CHEE KEONG
STUDENT'S ID : 1000310142
MAJOR : B-ENG (HONS) ELECTRICAL &
: ELECTRONICS ENGINEERING

FIRST SUPERVISOR'S NAME : MR RODNEY TAN
SECOND SUPERVISOR'S NAME : MR. AMMAR
PROJECT COORDINATOR : DR. KHEDR M. M. ABOHASSAN

SEPTEMBER 2005 - APRIL 2006

Abstract

An UAV (*Unmanned Aerial Vehicle*) Telemetry System that is able to acquire the data in the real time is presented in this report. This UAV Telemetry System was equipment with a wireless camera, TV card, RF module (Radio Frequency module) up to 200M, Pressure Sensor and prototype aircraft (an RC model aircraft). Two PCB board was build for this project, one is transmitter with the pressure sensor which is install on the aircraft another one is receiver which is connected to the computer through the RS 232. To monitoring the sensor data system in the project is applied the Simulink program which is provide by Matlab to develop a simple blockset to display the result of the pressure. The image acquisition software is capable to display the image taking by the wireless camera. The acquired data are analyzed and presented in the pressure analysis.