



FACULTY OF ENGINEERING & TECHNOLOGY

SCHOOL OF ENGINEERING

FINAL YEAR PROJECT

FINAL REPORT

MULTIPURPOSE SECURITY AND SURVEILLANCE AIRBORNE SYSTEM

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ABSTRACT

This following report representing the final report of the project title "Multipurpose Security and Surveillance Airborne System (MSSAS)". The contents of the report consists research done, design state, simulation, experimental and management work done from the period May 2004 to December 2004. The MSSAS is flying equipment that meant for surveillance purpose for the military and police use. The concept works are bases on the Air Mobile Ground Security and Surveillance System (AMGSSS) which developed in 1995 and in 1996. It was initiated by the United States Marine Corps. It used as supporting tactical security and force protection in tactical operation.

The MSSAS sizes are about 150% smaller than the AMGSSS and it only consume battery power unlike the AMGSSS. MSSAS are control using the pulse wave modulation signal which have a much accurate controlling on the motor and servo motor. The communication between ground control unit and the airborne unit are link by the Radio communication, which are the frequency modulated (FM) signal.