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Mailbird

An autonomous delivery system

# Project Description

## abstract

This document details the approach

## Executive summary

The attempted design application is an automated mail system. This will be accomplished with a quadcopter equipped with an augmented precision external landing module (APELM), for extreme.  The technical aspect of the project will be designing an aircraft guidance module and associated ground station (if necessary) to land in a precise location carrying a deliverable. A successful guidance system will bring the quadcopter within a five foot radius of the desired landing area via GPS, then the APELM module will interface with the flight controller to dock in an exact location, within a tolerance of 1 inch. After creating an effective, precision landing system, if time allows the system will be extended to include a software suite and mail delivery peripherals to allow for autonomous delivery of a custom-designed bin on a schedule determined by a user.

# Technical Approach

# Management Approach

# Budget

# Timeline

# Facilities To Be Used

# Disposition Agreement