## Senior Design Project

Christopher Waschenko, Yohan Gamboa August 2025

## Contents

1	Project Overview	3
	1.1 Requirements	3

## 1 Project Overview

The Goal of this project is to design a Quadcopter search and report extension module (SREM) that will be an add on to a generic FPV quadcopter drone. The **SREM** will handle the guidance navigation and control of the quadcopter, with the capability of navigation in extreme remote environments using mainly dead reckoning to perceive its state

## 1.1 Requirements

SREM-1 SREM SHALL determine estimate position without the need of GPS

SREM-2 SREM **SHALL** detect an possible crash site or camp