<Untitled Project>

An analysis of the necessary parts and redundant systems.

# Introduction

There is a necessity for a few specific categories of things on this project. Those are(not complete):

* Power Source
* Sensors, of various types
* Radio communication
* Motherboard
* Data storage
* Data processing and analysis tool
* Parachute and lander

# Power Source

## Solar Panels

## Wind Power

## Backup, fully recharged battery

# Sensors, of various types

## Accelerometer

### ADXL345

<https://www.adafruit.com/products/1231>

<http://www.stuffaboutcode.com/2014/06/raspberry-pi-adxl345-accelerometer.html>

## Thermometer

## Barometer

## Location Sensor

## Camera

### Raspberry Pi Camera Board v2 – 8MP

<https://www.adafruit.com/products/3099>

# Radio Communication

## HAM Radio

## Basic Ping(?)

# Motherboard

## Raspberry PI

## Arduino

## Local Storage on each sensor

# Data Storage

## Flash Drive

## MicroSD Card

# Data Processing and Analysis

## Computer Program

## Raw de-serialization

# Parachute and Lander

## Possible landing legs

## Fins for stabilization(?)

## Lightweight parachute