PROJECT OUTLINE:

* Design a Cubesat/femtosat/ really tiny box in space
* Make it As good, if not better, than this one:

[KickSat Sprite: a kickstarter-backed cubesat (3.5x3.5cm, 4gram weight)](https://kicksat.github.io/)

* + This is gonna be our baseline(Make something like this First)
* Design will be assuming ground test, but still research considerations for cubesat

CONSTRAINTS (Self Imposed):

* Some method of **wireless communication**
* A viable method of **onboard power** (solar, battery, etc)
* Weigh no more than **10g** (Krishna Kumar’s satellite weight)
* Must be no larger than **7x7cm** (double the kicksat’s area)
* Able to compute useful work while in space

SCHEDULE:

OCTOBER:

* 1. Decide what additional constraints need to be considered
  2. Choose which constraint(s) we will research on to design for
  3. Conduct Research
  4. One meeting at least where all findings are presented and critiqued
     + This can also be the one meeting we will have again with the prof
  5. Have Concept Critiqued by Prof or professional contacts (He has one)

NOVEMBER:

1. Complete any steps that were unable to be completed in the month of OCTOBER
2. Finalize design and procedures (whatever we still need to plan) with prof
3. Individual Student tasks begin planning phase
   * Software Student begins planning Algorithms code
   * Hardware Student begins planning circuits and parts
   * Team Leader begins planning test plans and coordinating other members
   * Algorithms should be as Flowcharts, and Circuits as Schematic Files
   * Test Plans should be official Word Documents and Schedules as Spreadsheets(whatever looks professional IDK)
4. At least one meeting where all plans are critiqued
5. Hardware Student Begins ordering parts/resources for prototyping
6. Software Student Begins writing Code
7. Team Leader keeps tabs on hardware and software (IDK)

DECEMBER – MARCH

Prototyping and Testing

* + Meet up when necessary

Current Research

[Interview with kicksat guy](https://www.youtube.com/watch?v=Cue8HIX_QD8)

[Another video about the kicksat satellite and starshot project](https://www.youtube.com/watch?v=toPUepMEZGs)