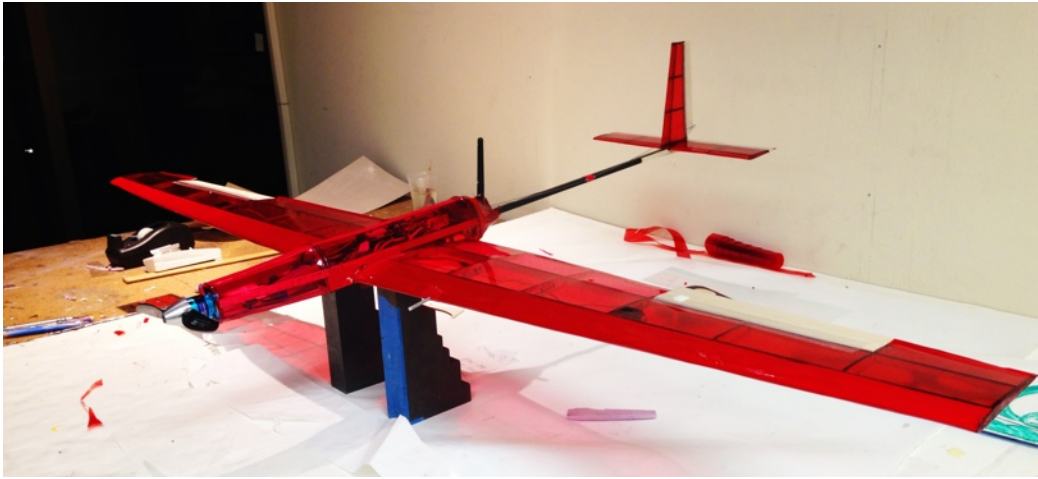


# SKYNET

# AA241X RED TEAM

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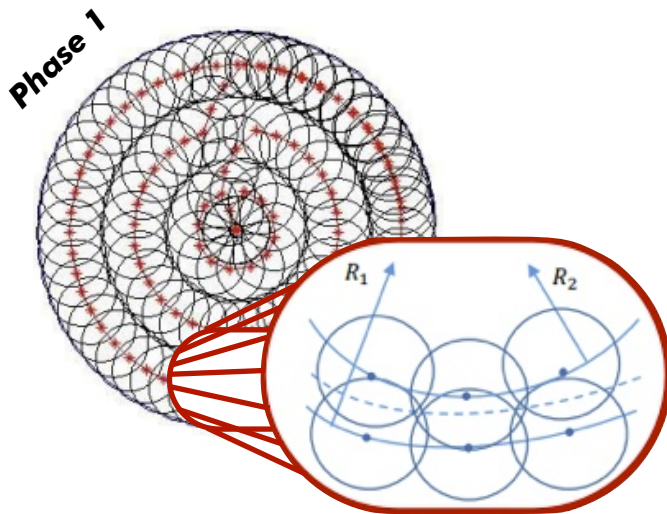


## MK-III.3 "The Terminator"

### Technical Specifications:

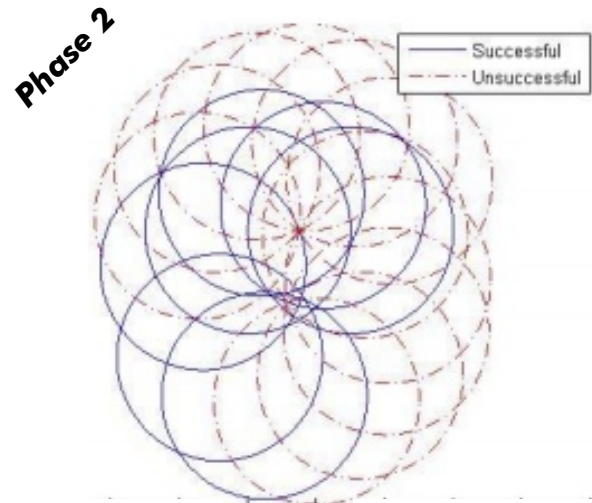
- APM 2.6
- Balsa/Monokote/Plywood/Carbon Fiber construction
- HC2808 Himax Brushless Motor
- Aeronaut CAM Folding Propellers
- 7.4V 1100mAh 2-Cell Li-Po Batt.
- $L/D_{MAX} = 16.3$
- Weight = 451 g
- Wing Area = 0.2 m<sup>2</sup>
- Wing Loading = 21.8 N/m<sup>2</sup>
- Wingspan = 1.42 m

## Mission Strategy



Average Score: 30 pts

In this phase, we fly a spiral at the highest altitude while taking overlapping snapshots that ensure coverage over the entirety of Lake Lagunita's flyable region to guarantee sighting all targets.



Average Score: 35 pts

After acquiring initial target estimates, we circle each target individually and refine results with 13 or more successive snapshots. Battery limits are in place to ensure all target estimates are within two meters.

## The Team

Kartikey Asthana  
Peter Blake  
Brandon Jennings  
Erik Moon  
Sravya Nimmagadda  
Akshay Subramaniam  
Ian Villa  
Jerry Watkins

*Mission Strategy Lead*  
*Pilot & Fabrication*  
*Controls Lead & Pilot*  
*Fabrication Lead*  
*Aircraft Performance Lead*  
*Aerodynamics/Design Lead*  
*Team Lead*  
*Navigation Lead*

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