MICHIGAN STATE UNIVERSITY Beta Presentation ERP Air Force: Conservation Thread Detection The Capstone Experience Team Evolutio

Maddie Jones Jason Kirsch Qingyang Li Logan McDonald Drew Schnieller

Department of Computer Science and Engineering Michigan State University Spring 2020

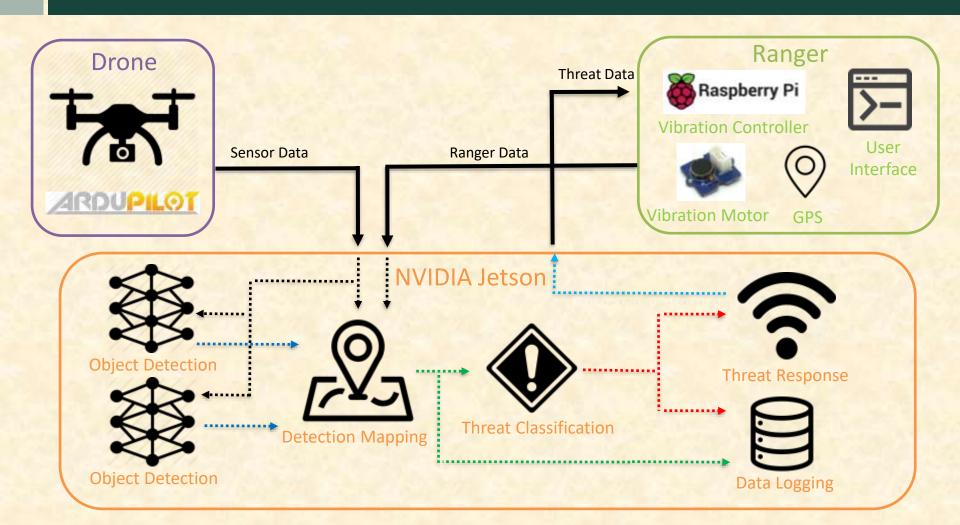


From Students... ...to Professionals

Project Overview

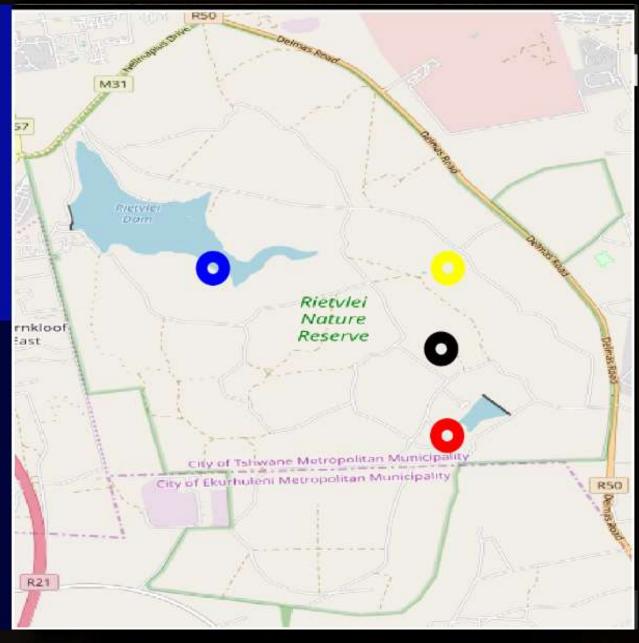
- Protect wildlife in South Africa
- Analyze live drone video
- Find and classify threats
- Alert rangers
 - Graphical user interface
 - Vibration vest

System Architecture



Мар





The Capstone Experience

Team Evolutio Beta Presentation

8

	Threat	Location	Time	Response
Мар	Elephant	-25.9111 28.3123	12:33	No Response
	Vehicle	-25.9101 28.3004	15:25	No Response
	Flood	-25.876 28.3123	14:49	No Response
	Fire	-25.9110 28.2876	22:28	No Response
List				

The Capstone Experience

Team Evolutio Beta Presentation

7

Return



Respond

Monitor

Vehicle -25.9101 28.3004 15:25

Ignore

The Capstone Experience

Fire Detection



What's left to do?

- Documentation of components
- Tune mapping and tracking for high tilt images
- Find altitude range of consistent detection of each type of threat
- Provide easy interface to update trail and road map of park
- Update UI color scheme, add logo

Questions?

