

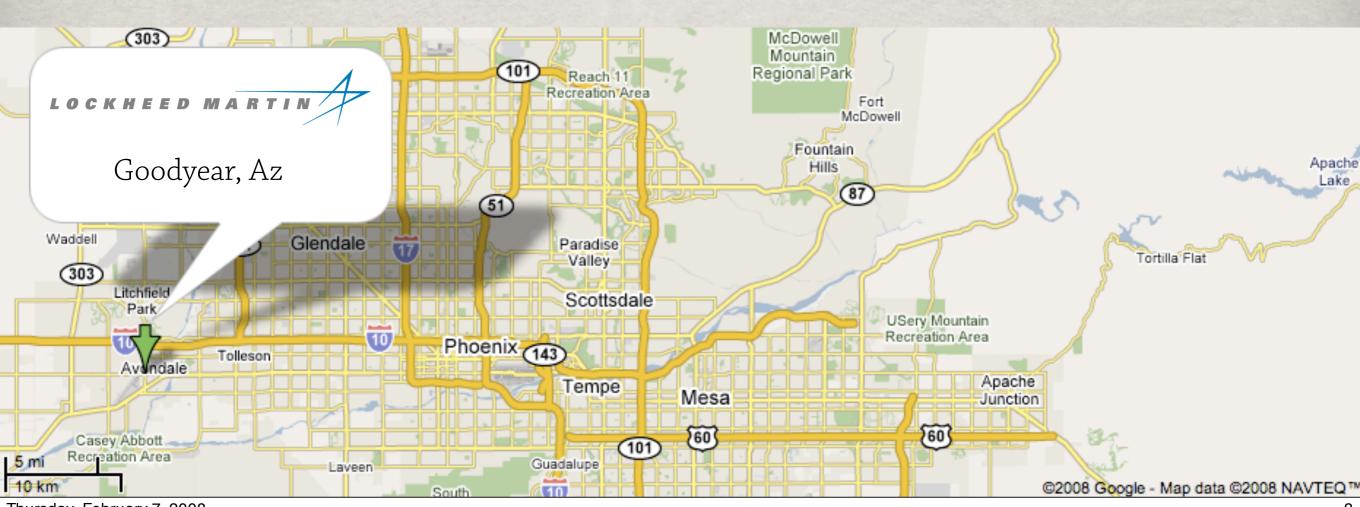
Inertial Navigation Data Simulator

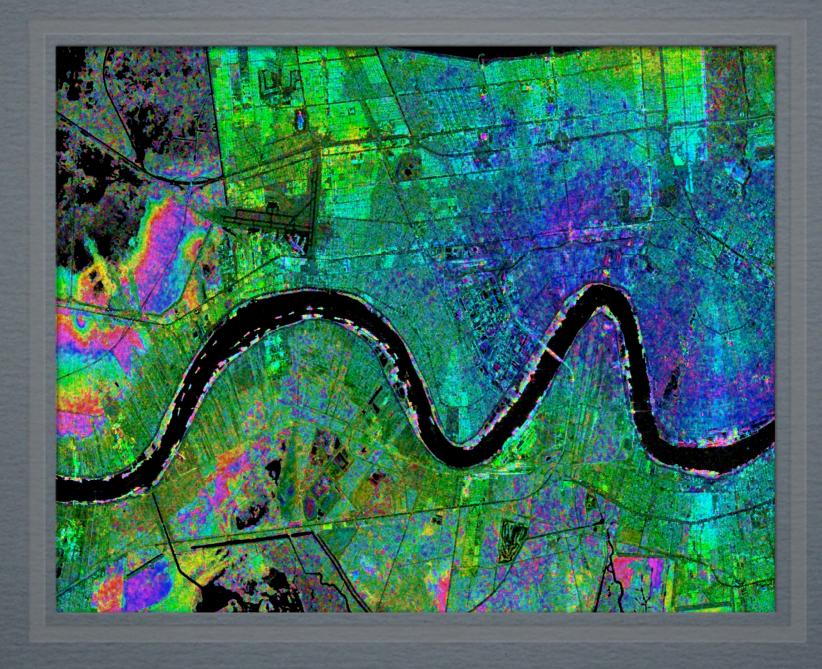


DAVID SMITH MIKE KASPER RYAN RAUB

SPONSOR

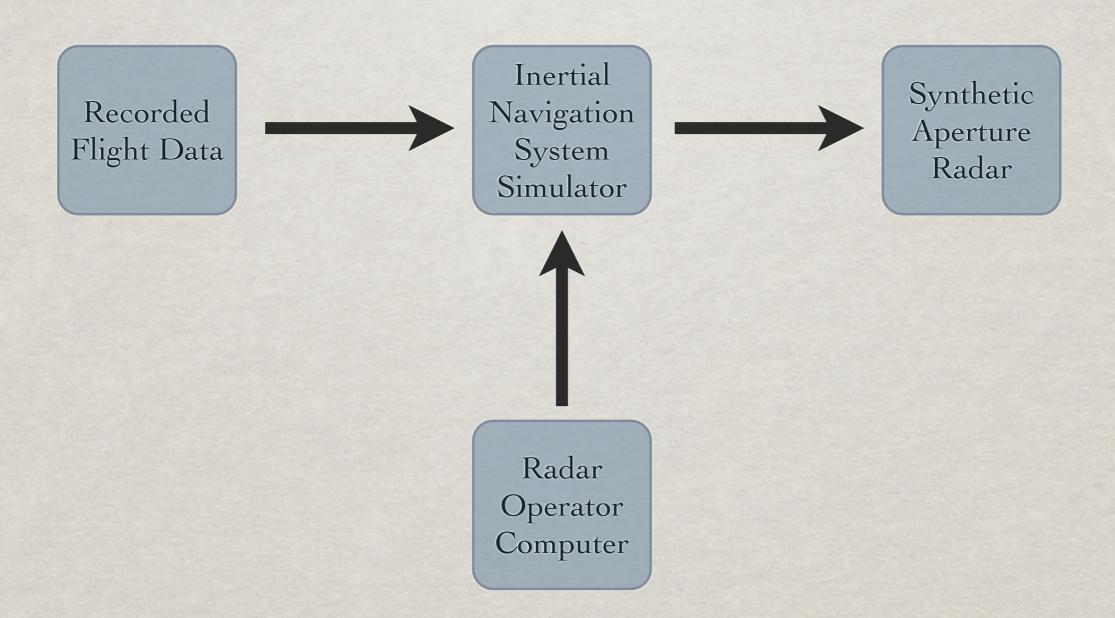
- ** Lockheed Martin
- ** Mark Wollgast
- * Engineering Program Manager





SYNTHETIC APERTURE RADAR

How it Works



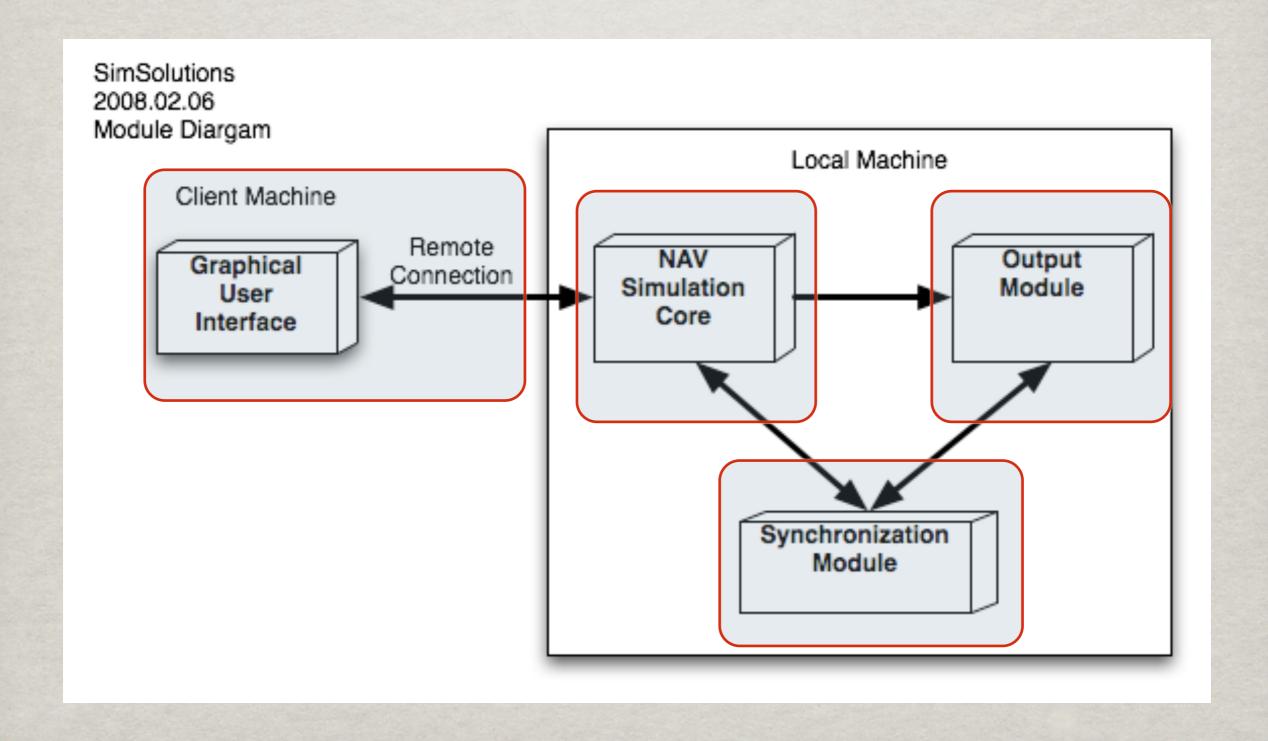
CURRENT PROBLEMS

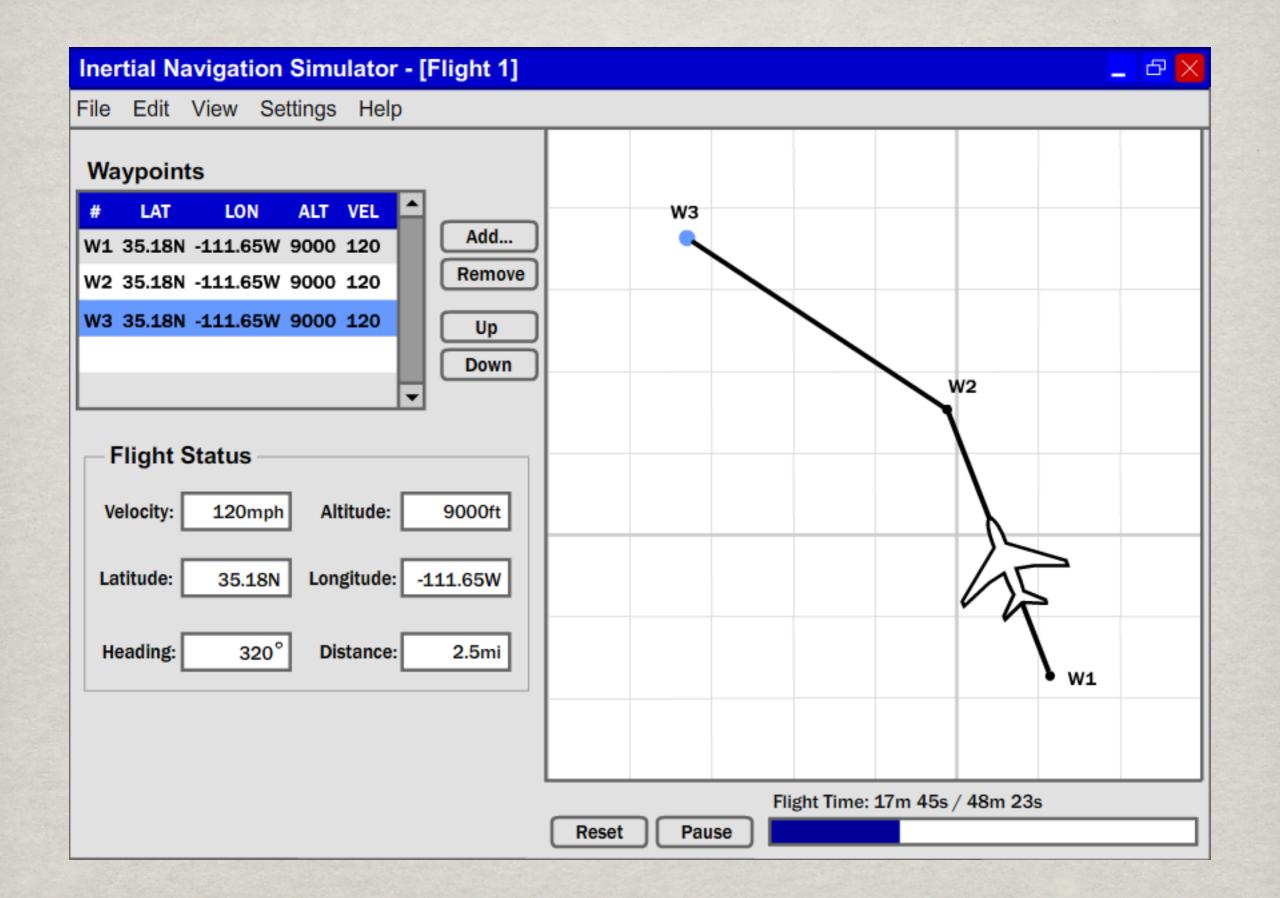
- ** Limited testing data
- Different data rates
- * Difficult to set up and run
- Current solutions are expensive and rigid

HOW IT WILL WORK



MODULAR DESIGN





REQUIREMENTS ACQUISITION

- **Communication**
 - ** Teleconference
 - * Email Correspondence

- * Early Data Specifications
- Interface Prototyping

REQUIREMENTS & FUNCTIONALITIES

** Remote GUI Client

* Waypoint Control

Modular Output

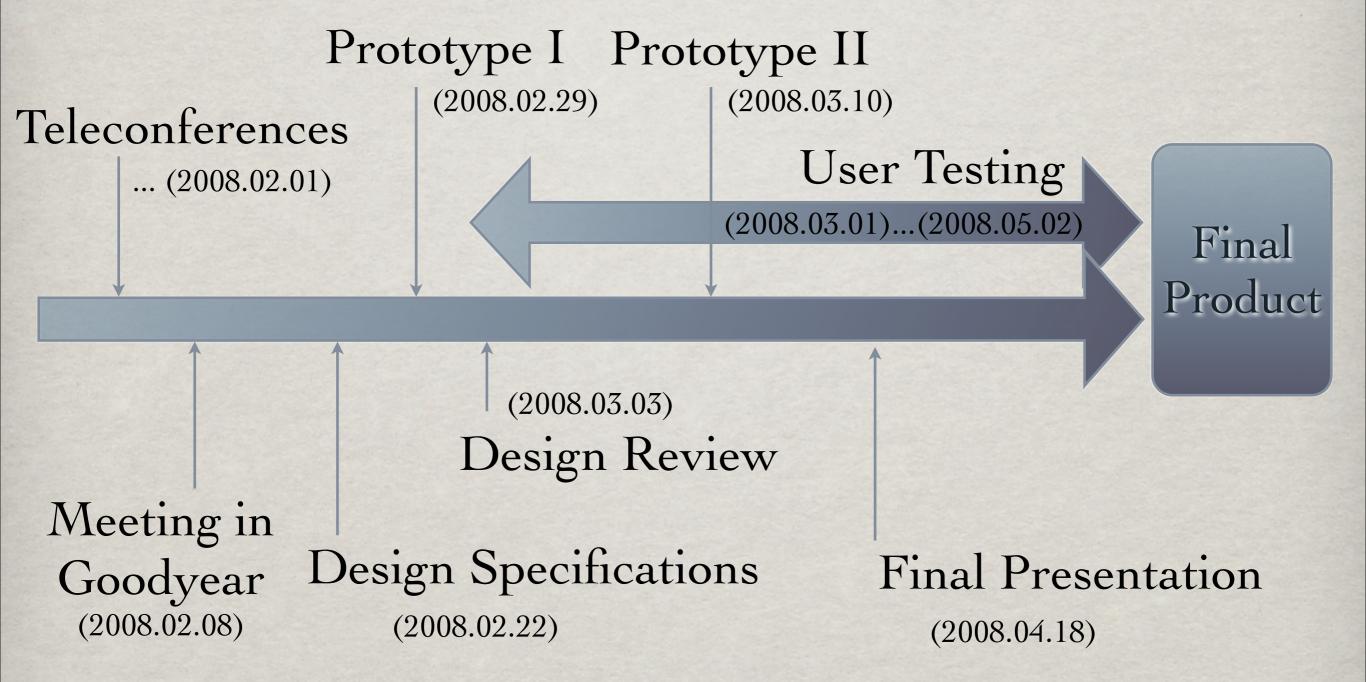
** Platform Requirements

- Runtime Parameter Modification
- * Playback
- **** Output Timings**

RISKS

- * Realtime Board
- Real Time Java (RTJ)
- **W** Unit Testing
- **Geographical Limitations**

TIME LINE



INERTIAL NAVIGATION DATA SIMULATION

- Robust Testing
 Environment
- ** Flexibility
- * Speed
- # Increase in Quality