

RV₃K

TEAM RV3K

CS CAPSTONE 2017 — ROCKET VIEW 3000

SPONSOR: ANDREW GREENBERG, PORTLAND STATE AEROSPACE SOCIETY

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March 21, 2017

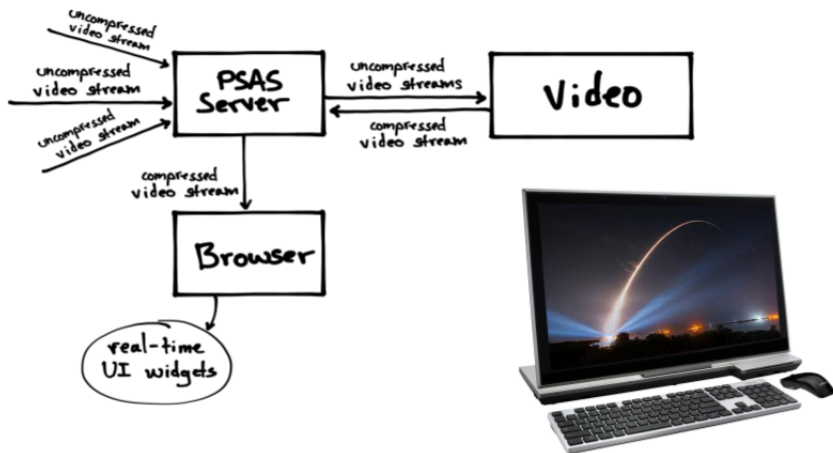
Portland State University
Maseeh College of Engineering and Computer Science

- Product
 - Product Features
 - Assumptions and constraints
- Process, schedule, and deliverables
- Risk analysis: across iterations
- What we learned

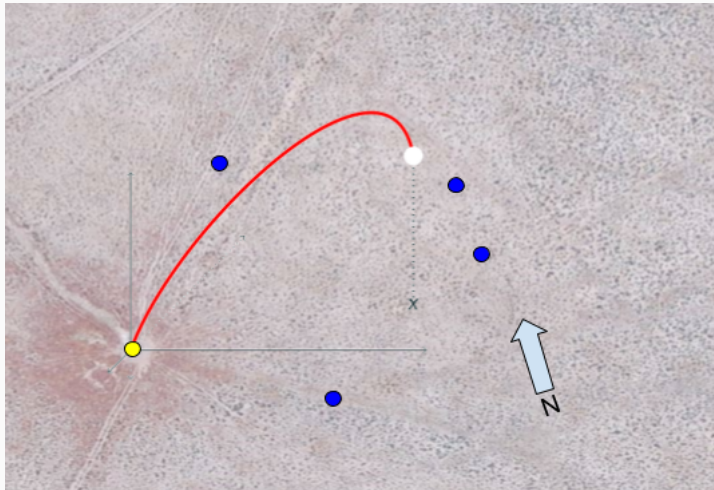
WHAT IS RV3K?

FEATURES

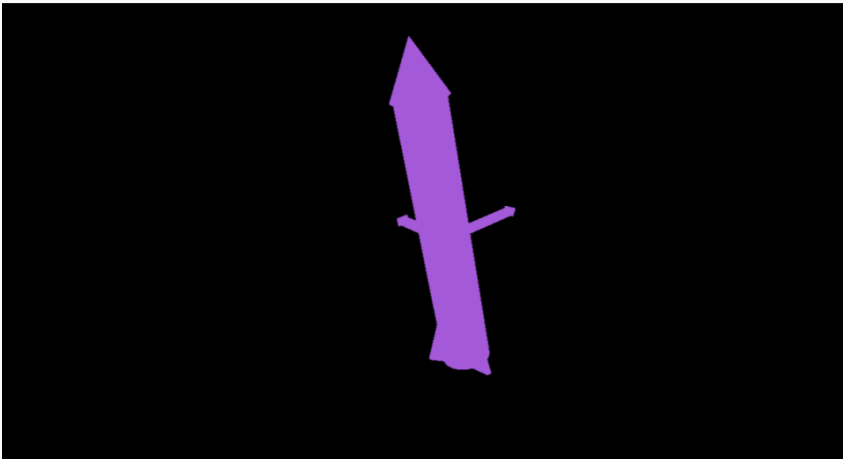
FEATURES: VIDEO DISPLAY



FEATURES: EARTH FRAME VIEW

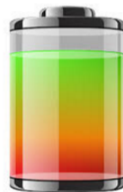
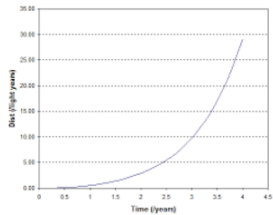


FEATURES: VEHICLE ATTITUDE VIEW

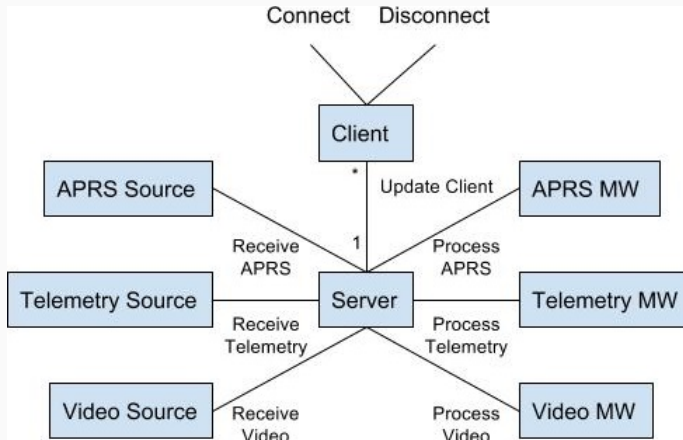


Video

FEATURES: TELEMETRY DATA



FEATURES: SERVER



FEATURES: INSTRUMENTATION AND LOGGING

- Purpose
 - To facilitate debugging traceability, and configuration
- Functionality
 - Logs connection status, errors, and relevant events

ASSUMPTIONS & CONSTRAINTS

PROCESS AND SCHEDULE

Planned Process	Actual Process	Planned Schedule	Actual Schedule
Project Plan	Same	Weekly	3 iterations
Requirements Elicitation	Same	week 0 to Feb 18th	March 7
Risk Plan	Same	ongoing	ongoing
SRS/License Agreement	Same	Feb 7 - Feb 18	Feb 7 - March 14
SDD	SDD draft	Feb 18 - March 20	Feb 21 - March 13

Used Trello and GitHub Issues/Milestones/Projects to track tasks

PROCESS AND SCHEDULE: TERM 2

Estimated Capacity

864 hours

+ 216 hours of slack
time

(96 hours per person)

Back End

396 hours

+

Front End

468 hours

With tasks broken down into 1 hour long pieces.

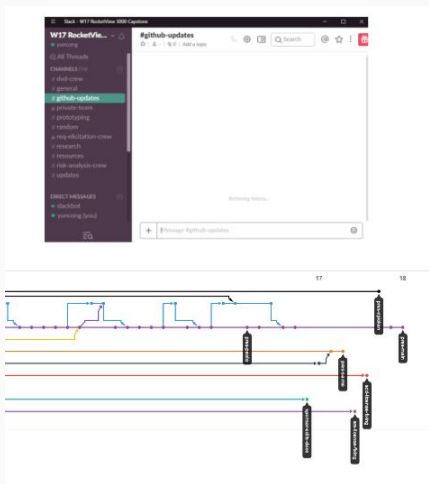
TERM 1 DELIVERABLES

- Project Plan
- Risk Management Plan
- Software Requirements Specification
- License Agreement
- SDD draft

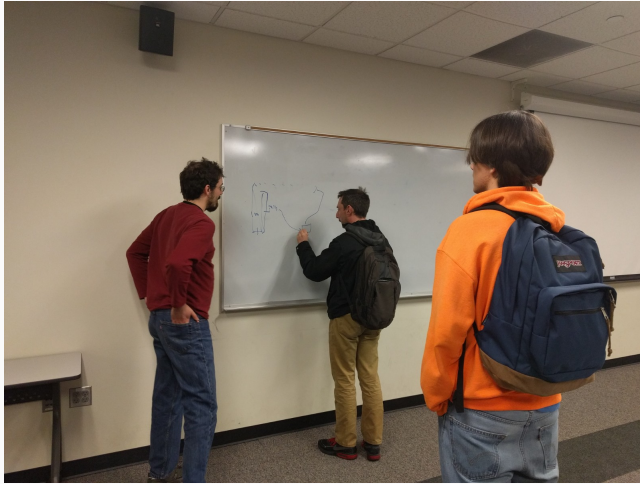
RISK ANALYSIS

LESSONS LEARNED

LESSONS: COLLABORATION WITH GITHUB / WORKING AS A TEAM



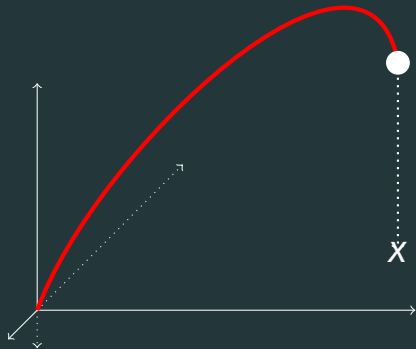
LESSONS: WORKING WITH SPONSORS



LESSONS: PSAS COMMUNITY



THANK YOU!



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