Test Plan

Project: LIBERTY

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1.0 Timeline:

1.1 Beta hardware component testing:

Timeframe: November 4th 2017 - November 8th 2017
Tests to be completed:
- Wifi receiver test (DONE)
- Localization test (start) (ultrasonic DONE)
- Mounting zipline test (DONE)
- Dismounting zipline test
- Light sensor capture test (DONE)

Resources: 3 engineers

1.2 Beta integration testing:

Timeframe: November 7th 2017 - November 13th 2017
Test to be completed:
- Localization test (after dismount) (claire)
- Navigation to zipline test
- Navigation through river test
- Capture
- Full playthrough test (integration)

Resources: 2 engineers

1.3 Final component testing:

Timeframe: November 9th 2017 - November 10th 2017
Test to be completed:
- Wifi receiver test
- Localization test (start)
- Navigation to zipline test
- Odometry correction test
- Mounting zipline test
- Dismounting zipline test
- Localization test (after dismount)
- Capture test
- Navigation through river test

Resources: 3-4 engineers

1.4 Partial integration testing:

Timeframe: November 11th 2017 - November 14th 2017
Test to be completed:
- Localization (Nov 11th)
- Localization + Navigation (Nov 12th - Nov 13th)
- Localization + Navigation + Capture (Nov 13th - Nov 14th)

Resources: 3 engineers

1.5 Final full integration testing:

Timeframe: November 15th 2017 - November 23rd 2017
Test to be completed:
- Full playthrough test

Resources: 2 engineers