

Test Plan

Project: LIBERTY

Document Version Number: 4.0

Date: 30/11/2017

Author: Edward Son

Editor: Andi-Camille Bakti

Edit History: https://github.com/Gabetn/DPM_01_Project_Documentation



McGill

TABLE OF CONTENTS

TABLE OF CONTENTS	2
Timeline:	3
1.1 Beta hardware component testing:	3
1.2 Beta integration testing:	3
1.3 Final component testing:	3
1.4 Partial integration testing:	4
1.5 Final full integration testing:	4

1.0 Timeline:

1.1 Beta hardware component testing:

Timeframe: November 4th 2017 - November 8th 2017

Tests to be completed:

- Wifi receiver test (DONE) see *Test - WIF*
- Localization test (start) (ultrasonic DONE) see *Test - Localization*
- Mounting zipline test (DONE) see *Test - Hook*
- Dismounting zipline test (DONE) see *Test - Dismounting*
- Light sensor capture test (DONE) see *Test - Capturing*

Resources: 3 engineers

1.2 Beta integration testing:

Timeframe: November 7th 2017 - November 13th 2017

Test to be completed:

- Localization test (after dismount) (Xijun)
- Navigation to zipline test
- Navigation through river test
- Capture see *Test - Capturing*
- 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 see *Test - Bridge Navigation*

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)** see the complete results in *Test - Integration (localization + navigation + dismount)* and in *Test - Integration (capture)*

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