

# Senior Design 2015-16 - Fall Interim Progress Report

Group No : BCC-4

Group Leader's Signature: Richard Taylor

Advisor's Signature : Dr. Peter's

1) Progress Made (in bullet points)\*:

- Acquired major components (sensors, HUDs, micro-controllers)
- Affixed pressure sensor to paintball marker
- Collected preliminary data from pressure sensor while attached to paintball marker
- Established wireless connection between 2 Arduinos
- Enabled bidirectional communication with Arduino board via serial port
- Started map code (map overlay drawer, map icon generator)

*(\*Please list all work carried out with the end goal of completing your project)*

2) Is the progress up to your project timeline:

☒ YES

☐ NO\*\*

No technical problems so far.

*(\*\*Please explain what technical problems are hindering your progress)*

3) If NO, how do you plan to rectify the issues:

4) Deliverables (all possible technical for this project) refined from PQF

- Written Report
- Relevant Electrical Schematics
- Relevant Electrical Block Diagrams
- Cost Evaluation
- Preliminary Data Collected from Sensors
- Top Level Block Diagram
- Functional Heads-Up Display that shows the following:
  - Player Location
  - Team Member Location
  - Paint Level Indicator
  - Air Pressure Indicator

5) What are the Group's Deliverables (minimum subset of deliverables in 4 to show success, including reports and presentations)\*\*\*

- Written Report
- Relevant Electrical Schematics
- Relevant Electrical Block Diagrams
- Top Level Block Diagram
- Functional Heads-Up Display that shows the following:
  - Player Location
  - Team Member Location
  - Paint Level Indicator
  - Air Pressure Indicator

*(\*\*\* Part of your grade will depend on your progress towards completing the deliverables in 5)*