

# CHANGE REQUEST FORM

Prepared By: Zureen Hanif

**Project Name:** TQM Robotics - Indoor Positioning using Ultra WideBand

**Date Request Submitted:** 10/03/2021

**Title of Change Request:** Change in REQUIREMENTS and OBJECTIVES

**Change Order Number:** 3

**Submitted by:** RND Team: Zureen [zureenhanif07@gmail.com](mailto:zureenhanif07@gmail.com)  
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**Change Category:** ☒ Scope ☐ Schedule ☐ Cost ☒ Technology ☐ Other

**Description of change requested:**

Remove functional requirement: System shall be able to run with the new implemented language "C#".

**Events that made this change necessary or desirable:**

Out of scope for the R&D project duration (not enough time to completely reform the code from C++ to C#)

**Justification for the change/why it is needed/desired to continue/complete the project:**

This change is necessary so that we can fulfil our commitment to the client and drive the project to a successful point where we as a group and the client are both happy.

Reasons we cannot efficiently complete the requirement of conversion to C#:

- There are **more than 4000 lines of code** with minimal comments explaining what the code is doing
- 150 hours per person so  $150 \times 4 = 600$  hours in one semester - not enough time to upskill even more AND build on the code simultaneously with the portfolio, reflective report, poster etc = too much to do, so little time

**Impact of the proposed change on:**

Scope: minimal changes, not a negative impact

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**Schedule:** no change observed

**Cost:** no change observed

**Staffing:** no change observed

**Risk:** no risks observed

**Other:** This change will have a positive impact on the project as the team will dedicate more time on core requirements instead of wasting time on one requirement.

**Suggested implementation if the change request is approved:**

To ADD more than 4 anchor points and a few additional features as discussed, but keep C++ as the language throughout instead.

**Required approvals:**

Name - Title	Date	Approve/Reject
Charles Tsui - Client/Sponsor	13 Mar 2021	Approved (Signature)
Zureen Hanif - Project Manager	10/03/2021	APPROVE