

Middle East Technical University

Electrical - Electronics Engineering Department

## EE494 - Engineering Design II

## Weekly Report

**Group Name:** λambda

**Date:** 03.04.2022 *(Week 5&6)*

**Design Coordinator:**

Associate Professor Dr. Elif Vural

**Members of Company :**

**-**Berk Erhan Yüksel

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1. **Done During Week 5**
2. The ordered LaunchPad CC2640R2F boards have arrived.
3. As the team obtained the main hardware components needed for development, the team met to discuss the execution of the parts that are currently lacking such as using multiple tags and the door tag implementation.
4. **Planned for Week 6**
5. In the following weeks, the development will continue where it left off. The team will be meeting at the design lab. The development process is roughly as follows:
   1. Checking (testing) if the boards work as they should
   2. The working algorithm in the single tag case will be tested for the doorcase
   3. The implementation of the buzzer
   4. Settling on the antenna to be used, as well as testing these relevant pieces to validate that they meet what we have in mind.
   5. The scenario where there are two tags in the range of the master needs to be examined. First, a test process must be carried out to see if the master sees only the closest tag. If the master sees both of them at the same time, causing a fluctuation in the measured RSSI values, then the algorithm must be tweaked so that the master can recognize which tag it is communicating with.