

Middle East Technical University

Electrical - Electronics Engineering Department

## EE494 - Engineering Design II

## Weekly Report

**Group Name:** λambda

**Date:** 17.04.2022 *(Week 7&8)*

**Design Coordinator:**

Associate Professor Dr. Elif Vural

**Members of Company :**

**-**Berk Erhan Yüksel

**-**Necdet Can Sönmez

**-**Mustafa Barış Emektar

**-**Alper Saraç

**-**Furkan İtkü

1. **Done During Week 6**
2. Due to the busy schedule of the team members, no physical meeting has occurred, unfortunately. However, possible algorithms for the doorway tag system were discussed to obtain different methods for the task. The team concluded that a setup for the doorway tag system should be experimented upon to acquire data from different positions with respect to the tag(s). Using the data and the predictability of the data, the doorway-zone distinction algorithm will be determined.
3. **Planned for Week 7**
4. In the following week, the tests and the improvements on the project's algorithm will be continued:
   1. The team will try the doorway tag case algorithm since we can now work with multiple tags.
   2. The code will be optimized and minimized (without losing any functionality) as much as possible to increase device's speed and accuracy.
5. The team will brainstorm on the demo. A detailed and clear description of the demo will be prepared and submitted including the following issues:
   1. The physical structure of the demo
   2. The scenario including the all of the actions that will be taken during the demo