Middle East Technical University
Electrical-Electronics Engineering Department
EE 493 – EE 494, Engineering Design I, II

20.10.2023
Weekly Progress Report

COMPANY NAME: TechBatch
TEAM MEMBERS: Eda ÖZKAYNAR, Hasan Said ÜNAL, Mustafa ÇELİK, Mustafa Kemal ÖZDEMİR, Tuana MERDOL

What were your plans and goals for this week? What was the individual task of each member of your team?

In this week our general objective was understanding each project and deciding which one can be more suitable for our group. For that we assign each project to one of the group members and each member conducts a comprehensive research on that particular project. We evaluate projects in terms of their challenges, advantages as well as group members skills and interests. The first goal was understanding technically the projects. The second goal was having a broad idea about which ones can be more suitable for us and eliminating some of them. Lastly, the third goal was deciding on general group policies that will be conducted throughout the semester. The project assignments for research done as below;

- Eda ÖZKAYNAR was assigned to the Long Thin Hauler project.
- Hasan Said ÜNAL was assigned to the Mobile Application for Traffic Violation Monitoring project.
- Mustafa ÇELİK was assigned to the Autonomous UGV project.
- Mustafa Kemal ÖZDEMİR was assigned to the Ad Hoc Network Communication System for Disaster Relief and Direction Finding Vehicle -DFV projects.
- Tuana MERDOL was assigned to the Smart Baby Monitor project.

Have you met your goals?

After meeting on Tuesday at 18.00, we presented the assigned projects to other team members, and discussed them without prejudice afterwards. This completely changed our first ideas at the time when these projects were introduced as we understood the projects in depth. At first glance, we were in a closer position to choose ''Smart Baby Monitor''. However, after the meeting, we eliminated two of the projects. These are ''Mobile Application for Traffic Violation Monitoring'' and ''Smart Baby Monitor''.

Finally, we can say that in terms of understanding the projects we met our goals. We also eliminated some of the projects.

What were the challenges that you encountered?

This evaluation of the challenges will help you come up with questions to discuss in the next meeting, and plan your upcoming week. Could be an itemized list.

- The elimination of the project was a challenge.
- Despite eliminating two projects, we are in the same distance to every remaining project.
- Since 3 of the group members work part-time, finding time to suit everyone was difficult.

What are the questions (if any) that you would like to discuss this week?

1. **Autonomous UGV**
   - Will the cost of lidar be covered by the sponsor or foundation? (Parlar vakfı)
   - We can only use a lidar in this project, but can we use an encoder?

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What are your plans and goals for next week? Assign tasks to each individual member.

After eliminating two projects, we decided that we need to do more comprehensive research on the other four projects. These researches should contain more technical perspectives as such as required software tools, hardware, and available resources that can be used. Moreover, we decided that each member will conduct research on two projects this week. Results of these researches will be discussed in the official group meeting on Tuesday. At the end of the week we are hoping to decide on our project and at least eliminate some options.

- Ad Hoc Network Communication System project will be searched by Tuana, Hasan and Mustafa Kemal.
- Autonomous UGV project will be searched by Mustafa Kemal, Eda and Mustafa.
- Direction Finding Vehicle -DFV project will be searched by Hasan, Tuana, Mustafa Kemal.
- Long Thin Hauler project will be searched by Mustafa, Eda.