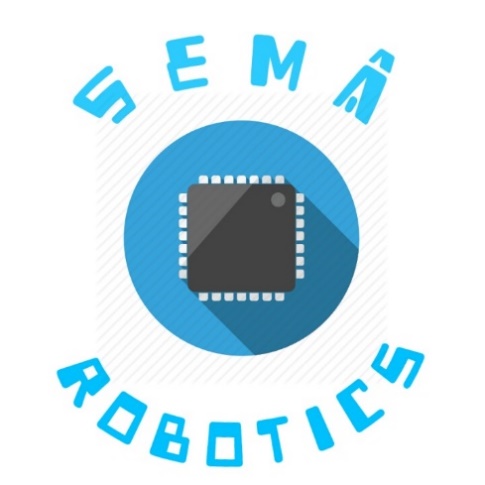
#### *Project Proposal* Date of Submission:10.11.2017



**SEMA COMPANY**

**7th Section**

**Advisor:** Assistant Professor Emre ÖZKAN

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**“SEE-SAW PROJECT”**

**(Robots collaborating to balance on a see-saw and keep the distance between them)**

Starting date: **3.11.2017**

Duration: **8 months**

Project Budget: **$ 200**

Expected completion date: **May.** **29, 2018**

**Company Members:**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Contact Phone** |
| Abdurrahman AYDIN | Financial Manager | 0544 925 25 58 |
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| Mutluhan ÖZKAN | Coordinator/ CEO | 0507 363 49 80 |

# 

# Introduction

As a result of very long meeting and discussion, we have decided to choose See-Saw Project for EE493 course as a company. This project, we ensure the balance of the two mutual robots (only one of them is ours other one is other team’s) by rearranging their place on plank. Also, the robots protect distance between themselves (keep a gap of about 50 cm between them). The aim of the system is protecting balance as horizontally.

We can encounter several difficulties about project. First difficulty is about protecting distance other team’s robot. Because, if we want to ensure that the system is balanced, we can approach less than 50 cm to other team’s robot. In addition, we decide which command is done first (protecting distance or supplying balance). Second difficulty is that our robot response time must be very small. Since, if our robot response several seconds, the equilibrium state of system is degraded. Another difficulty is that the robot can fall from plank. Since, plank length is constant. Therefore, we also provide to prevent falling.

This project can be used several areas. For example, we can use the system for providing balance of ship. Also, we can integrated this system to winch. In addition, we use this system for supplying car safety. To illustrate, we can also provide balance of car when   
the car turns from sharp bends. Also, we can encounter lots of balance problems. We believe that this project can help to solve these problems.

In following parts, this report provides detailed explanations. Firstly, background information of all five members of company and organizational structure of team are given. As follow, project requirements are stated and defined clearly in the requirement analysis part. In addition, we specified standards of project. Also, we mentioned solution which we plan to follow. A description of product and services and how to serve possible customers are explained in expected deliverable part. Lastly, we concluded the document with a conclusion and appendix parts.