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X-Cali

Busines Statement

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Design Studio Section:

3

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Introduction

Mission and Vision of the Company

Mission

To produce reliable, affordable and high quality products and to provide satisfaction to all stakeholders.

Vision

To become the leading technology company in Turkey and one of the most productive companies in the world by creating value in the global market and to ensure long-term sustainable growth.

Human Resources

Justification of the composition of the team

Description of Capstone Design Projects

Justification of the composition of the team

Project 1

Robots taking part in a basketball shoot-out

In this project, two opponent robots will take part in a basketball shoot-out. Each team will design and construct one of the robots.

In the game field, there will be three parallel lines that consist of two baselines and a center line. These lines will be spaced equally by 1 meter. Center line will seperate the game field into two similar half-fields and each half-field will be constructed by one of the design teams. There will be no markings in these half fields except the baselines.

At the beginning of the game, 6 balls will be arbitrarily placed behind the baseline for each robot. The balls should be compatible to ping-pong balls in terms of size. Each robot is supposed to pick up a ball, carry it to the center of the game field and drop or shoot into the common basket which is placed on the center line. Robots will repeat this action until the basket is full. The team with more balls in the basket will win the game.

Throughout the game, robots can not deal with more than a ball at a time. Crossing the opponent’s half field or touching the basket is not allowed, any violations of these rules will be penalized.

Project 2

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Conclusion

Appendix 1

Time table for the tasks including the assignment of responsibilities until the submission of the proposal report

Appendix 2

CVs (Maximum of 2 pages per person)