# Project 2: Devices trying to score in each other’s goals

# In this project, there are two robots that are trying to score by shooting a ball to the opponent’s goal in a hexagonal platform. Robot needs some mechanical tool to push, hit the ball to other side.

# One of the important things for this project is to be able to design transmitter-receiver systems for remote controlling the robot and for monitoring the playfield. We need to transmit our commands to robot and the robot needs to receive our commands to operate them. Moreover, the scene of the playfield taken by a camera on robot must be transmitted to a monitor. These transmitter-receiver systems must match the requirements such that the range of controller must be 30 meters.

# Another thing that robots must do is that the robot must sense the playfield in a way to be able to understand that when it comes to middle of the field it is not allowed to pass here.

# Robot must contain a system that count time for the ball in its area because the allowed time for ball in a middle area is 20 seconds.

# System should include transmitter-receivers, sensing units to sense the playfield and sense the start command, timer to count time, mechanical tools for hitting the ball.