

### **Linkedin Post**

During the second block of the #PDEng program, #MSD trainees have worked on their first in-house project. The problem statement provided to the trainees was to develop an autonomous referee system, AutoRef, which is able "To have a 5 minute long 2 against 2 robot soccer game, using the Tech United turtles, refereed by the system described above, which receives a positive recommendation by an experienced human referee". The data gathered by the robots have been used to create a decision making algorithm to implement the rule violations.

You can find more information about the MSD project at <https://github.com/Anup8777/AutonomousReferee/blob/main/README.md>

An example of a positive recommendation to a human referee can be seen in the following video:

### **POST VIDEO**

The developed system generates warning messages for rule violations, for example, when the ball passes the line, free rolling of ball for 0.5 m during kick - off, etc. The system also indicates the last robot that touched the ball.