Daily Report 7

➢ Hardware and Firmware:

For today's progress I completed the code for the car and added the autonomous mode which depends on the user's input distance and the readings of the ultrasonic sensor and I optimized the code so that the user could enter the input through the GUI and hc-06 Bluetooth module the code is about 211 line and it is organized and is divided into several functions to be easy to trace and understand

➢ Computer Vision:

For the stereo vision task, we implemented the algorithm that can calculate real-time distance between two points, but the problem is that the disparity map isn't clear enough and the distance calculations directly depend on it. We are now trying to debug this issue to find a more precise distance reading.

➢ GUI

Today, multiple tasks have been completed: files have been cleaned and renamed for accuracy and clarity, classes modified and set. Bluetooth connection is finally established and connection to module is to be tested. Signal indicators were added but to be adjusted and direction control have been connected. Remote Window is almost ready, just some tasks to be addressed. Autonomous window still requires some modifications