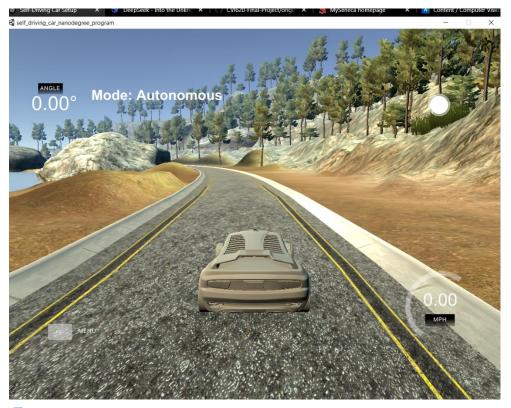# CVI620 – Final project Error Report

During the development of this project, we encountered numerous challenges. Initially, the stimulator did not work on my first device. Despite setting up the environment from scratch, the issue persisted.

After switching to another device, the stimulator finally functioned properly. We successfully collected the dataset and trained the model. However, when running **TestSimulation.py**, even with automated driving enabled, the car still did not move on my device.

Since I couldn't resolve the issue, I handed this step over to my teammates to run the same programs on their systems.

Mode: Autonomous

ANGLE
0.00°

0.00
MPH

self_driving_car_nanodegree_program

Windows PowerShell

```
Epoch 46/50
13/13 [==============================] - 6s 487ms/step - loss: 0.0915 - val_loss: 0.0182 - lr: 4.8828e-07
Epoch 47/50
13/13 [==============================] - ETA: 0s - loss: 0.0887
Epoch 47: ReduceLROnPlateau reducing learning rate to 2.4414063659605745e-07.
13/13 [==============================] - 6s 490ms/step - loss: 0.0887 - val_loss: 0.0128 - lr: 4.8828e-07
Epoch 48/50
13/13 [==============================] - 6s 487ms/step - loss: 0.0801 - val_loss: 0.0365 - lr: 2.4414e-07
Epoch 49/50
13/13 [==============================] - 6s 489ms/step - loss: 0.0887 - val_loss: 0.0229 - lr: 2.4414e-07
Epoch 50/50
13/13 [==============================] - ETA: 0s - loss: 0.0849
Epoch 50: ReduceLROnPlateau reducing learning rate to 1.2207031829802872e-07.
13/13 [==============================] - 6s 494ms/step - loss: 0.0849 - val_loss: 0.0184 - lr: 2.4414e-07
C:\Users\Jerry\anaconda3\envs\sdcar_env\lib\site-packages\keras\src\engine\training.py:3000: UserWarning: You are saving
 your model as an HDF5 file via `model.save()`. This file format is considered legacy. We recommend using instead the na
tive Keras format, e.g. `model.save('my_model.keras')`.
  saving_api.save_model(
[INFO]: Model saved as model.h5
(sdcar_env) PS C:\Users\Jerry\Desktop\final project> python TestSimulation.py
Setting Up ...
(6804) wsgi starting up on http://0.0.0.0:4567
(6804) accepted ('127.0.0.1', 55235)
127.0.0.1 - - [16/Apr/2025 00:07:19] "GET /socket.io/?EIO=4&transport=websocket HTTP/1.1" 200 0 7.436329
(6804) accepted ('127.0.0.1', 55337)
127.0.0.1 - - [16/Apr/2025 00:10:31] "GET /socket.io/?EIO=4&transport=websocket HTTP/1.1" 200 0 9.166386
(6804) accepted ('127.0.0.1', 55414)
(6804) accepted ('127.0.0.1', 55435)
(6804) accepted ('127.0.0.1', 55440)
(6804) accepted ('127.0.0.1', 55477)
127.0.0.1 - - [16/Apr/2025 00:14:38] "GET /socket.io/?EIO=4&transport=websocket HTTP/1.1" 200 0 4.910699
127.0.0.1 - - [16/Apr/2025 00:14:38] "GET /socket.io/?EIO=4&transport=websocket HTTP/1.1" 200 0 81.568556
127.0.0.1 - - [16/Apr/2025 00:14:38] "GET /socket.io/?EIO=4&transport=websocket HTTP/1.1" 200 0 114.858916
127.0.0.1 - - [16/Apr/2025 00:14:38] "GET /socket.io/?EIO=4&transport=websocket HTTP/1.1" 200 0 76.416758
(6804) accepted ('127.0.0.1', 55496)
```