**Steps to Set Up and Run the Integrated Model**

**Scenario 01: Aiming to create a digital twin for a line follower robot.**

* Download the MATLAB simulation, set it up in the MATLAB application, run it, and check it.
* Download the Unity 3D file, set it up in the Unity 3D application, run it, and check it.
* Use the Physical Model if you are a student at Riga Technical University. For more details, feel free to contact me. For those outside the university, build the Physical Model using the Esp32 File and consult the Building Physical File for guidance.
* First, run the unified MATLAB simulation. Then, execute the Unity 3D model and run the physical system as well. Remember that your laptop IP address and the ESP32 IP address should match, and make sure to update the ESP32 script accordingly.
* To access real-time data logs and parameter analysis graphs, run both the physical and virtual environments, and then open the HTTP dashboard. Adjust the following URL by replacing 192.168.79.227 with your current IP address: http://192.168.79.227/.

**Scenario 01: Aiming to use only the integrated system with the Virtual model and developing a separate Physical model instead of a line follower.**

* Okay, here, if you decide to use the whole integrated communication system with another model rather than a simple line follower.
* Download all three files and complete the design in Unity 3D. Set up and connect all the inputs and outputs from MATLAB.
* Please update the controller in the unified MATLAB application.
* Next, build your physical model and edit the script in the Arduino IDE by selecting your board. That's it! Your unique model is now ready for your new system.