The goal of my project is to build a humanoid robot with only 5 degrees of freedom that can stand upright and walk by itself. I will be using reinforcement learning so that the programming will be dynamic, and the robot will be able to correct itself when pushed or when walking on uneven floor.

Now I am working on simulating a robot with 3 DOF that cannot fall and can only move in one direction. Then I will switch to simulating the one with 5 DOF, and eventually I will build it and apply the learning from the simulation. I am currently using the [Webots simulator](https://cyberbotics.com/).