

Creating Project

In this tutorial, you will learn how to implement a self-leveling platform system using inertial sensors and servo control, entirely within the ChipInventor platform. The system uses I2C communication to read data from the MPU6050 sensor (accelerometer and gyroscope), calculates the platform inclination using angle estimation algorithms, filters the signals, and automatically adjusts servos to keep the platform leveled.

Initial steps:

1. Open the **ChipInventor** website.
2. Click on **New Project**.
3. Fill out the fields:
 - **Name:** Self Leveling Platform
 - **Description:** Auto-leveling platform project with MPU6050 and servo control.
 - **Type:** FPGA
4. Click **Create** to start the project.

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