

California State University Stanislaus
Department of Computer Science
Project #2

Jupyter Notebook and JetBot Basic Motion

In this project, you will create a Jupyter notebook file under the `basic_motion` directory. Please name the file as “Project2_Team#.ipynb”, where # is your team number. Inside this notebook, you will create some Code cells to write python codes and some Raw cells to make comment on your python codes and to write a simple project report at the end.

The first task in this project is to write a Python code to let the robot move forward at 50% speed for three seconds, and then stop.

The second task is to let the robot move along a square. The robot should move forward at 50% speed for three seconds along each edge of the square.

The third task is to create a widget (user interface) with two buttons: Forward and TurnRight. When the Forward button is clicked, the robot will move forward at 50% speed for three seconds, and then stop. When the TurnRight button is clicked, the robot will turn right 90 degrees.

Finally, you are required to write a simple project report, including each team member’s contributions to the project, what you have learn from this project, and what problems you find in this project.

Submission: Softcopy of your notebook file.

Demonstration: the execution of your code by your JetBot robot.

Due: 3/18/2020.