

Smooth Line Following - Arduino

Time required: 60 minutes

Please read all the directions carefully before beginning the assignment.

1. Comment your code as shown in the tutorials and other code examples.
2. Follow all directions carefully and accurately.
3. Think of the directions as minimum requirements.

Understanding

Demonstrate understanding of:

line follower

Tutorial Assignment

1. Save **SmartLineFollowing** as **SmoothLineFollowing**.
2. Look at your mBlock Smart Line Following program. Try to make the line following smoother and able to follow sharper turns. Try a car turn. Don't go below 70 for power. Try reducing one side speed and increasing the other. Try speeding up when you are going straight.
3. Add different left turn, right turn, and forward function with different names. Start with the code from left, right, and forward. Change those functions to optimize the line following for speed and accuracy.

Assignment Submission

- **All students** → Attach finished programs to the assignment in Blackboard.
- **In class assignment submission** → Demonstrate in person.
- **Online submission** → A link to a YouTube video recording showing the assignment placed in the submission area in BlackBoard.