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LABORATORY PROJECT IN ROBOTICS

Requirements in the Laboratory Project:

- *Design a circuit of the prototype using TinkerCAD simulator.
- *Create a program using any programming language that can run in the TinkerCAD simulator.
- *Submit a Weekly Accomplishment Report in Laboratory Week Tab from week 10 to week 13.
- *Submit a documentation paper with this content:

Cover Page

Title Page (APA Format, include all your names here)

- I. Introduction
- II. Objective (of the prototype)
- III. Materials, Equipment, and Software
- IV. Screenshot of:
 - the designed circuit of the prototype
 - the program
- V. Program Results (if possible, in the serial monitor)
- VI. Discussion
- VII. Conclusion
- *Produce and present a Video showing your program is working properly and simulating the circuit of the prototype.

Upon Submission, upload the following:

Program Files (if multiple files, compress in one zip or rar file)

Documentation (in docx and pdf)

Video/s

- * Directly uploading to the **Week 14 of Laboratory Tab** and compressing in one zip or rar file is allowed. (Use your group name as the zip or rar filename)
- * Uploading files separately in the **Week 14 of Laboratory Tab** is allowed if instructed by your instructor.

You can apply all the listed topics in Robotics below:

- Actuators and Drivers
- DC Motor Encoder
- Vibration Motor
- Control Components
- IR Remote
- Keypad
- Ultrasonic Distance Sensor
- Kinematics

For the Groupings: This is instructed by your instructor.