A picture containing text, sign

Description automatically generated **TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES TAGUIG CAMPUS**

Km. 14 East Service Road, Western Bicutan, Taguig City 1630

**Phone # 823-2457 TeleFax # 823-2456/57**

<http://www.tupt.edu.ph>

**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.