

PCB

SCOPE OF WORK

Project Title:	ESP Extension Board	Details Person	MD YASIR UL HAQUE
Project #:			
Project Risk Level:	High		
Sponsor:	STEMROBO	Manager	AVINASH SIR

Project Details

Input supply of PCB	12V DC
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Kindly mention the voltages and current used or apply in this circuit

#	sensor	Input voltage
1	L298N MOTOR DRIVER	voltage rating:- 5V to 35 V Current rating:-2A
2	RC522 RFID 13.56MHZ	Operating Current :13-26mA / DC 3.3V
3	ESP-WROOM-32 WIFI Bluetooth Module	3.0V – 3.6V
4	1.3 Inch OLED DISPLAY	3.3 - 5V
5	DF PLAYER MINI MODULE	3.2–5.0 volts DC
6	NEOPIXEL RGB LED STRIP	5V
7	N20 GERA MOTOR 150 RPM	3 ~ 6

PROJECT PURPOSE

High-level narrative regarding what this project is expected to accomplish & its benefits

The Screen-Free Bot is designed to provide an interactive and engaging way for young students to learn coding fundamentals and basic mathematical operations without the need for a screen. By using RFID cards, students can program the bot to perform tasks and solve math problems in a tactile and visual way.

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Sensor work

Kindly mention the voltages and current used or apply in this circuit and the work or the purpose of the sensor

sesnor	DESCRIPTION
1	L298N MOTOR DRIVER

2	RC522 RFID 13.56MHZ
3	ESP-WROOM-32 WIFI Bluetooth Module
4	1.3 Inch OLED DISPLAY
5	DF PLAYER MINI MODULE
6	NEOPIXEL RGB LED STRIP
7	N20 GERA MOTOR 150 RPM

DELIVERABLES
for Product Dsigner only

DELIVERABLE #	DELIVERABLE DESCRIPTION
1	
2	
3	
4	