### 17. Case15: Speed Adjustable TPBot 17.1. Purpose

• Adjust the speed of the TPBot with the potentiometer.

## 17.2. Material



17.3. Hardware connection

Connect potentiometer to port 1 on TPBot.



#### 17.4. Software

#### MicroSoftmakecode 17.5. Programming

Click "Advanced" to see more choices in the MakeCode drawer.



• We need to add a package for programming. Click "Extensions" in the bottom of the drawer and search with "tpbot" in the dialogue box to download it.



• We need to add a package for programming. Click "Extensions" in the bottom of the drawer and seach with

"PlanetX" in the dialogue box to download it.										
🗲 Go back	Exten	?								
	PlanetX	٩								
	PlanetX (f7⊞X)The micro series PlanetX wit	thit new sensor h RJ11 Learn more								

#### ##Sample

- Drag the show icon brick into on start.
- In forever brick, map the returned value of the potentiometer from 0~1023 to 0~100, and set the mapping value as the speed for the car to move forward.

alacsonyról 0 magas 1023 alacsonyra

on sta	rt icon	-																					
foreve Go	r Forward •	at	speed	пар	Trim	pot	J1 <del>*</del>	analog	value	from	low	0	high	1023	) to :	low (	0 h	igh (	100	) x			
indí	táskor																						
	· #	iko	n megje	lenít	:ése																		
	1																						

#### Link

- Link : <u>https://makecode.microbit.org/ ArRM71PD6de0</u>
- You may also download it directly below:

leképzése ennek:

## 17.6. Conclusion

• After powering on, the speed of the TPBot could be adjusted by the potentioneter.

# 17.8. FAQ

Q: While operating this case, why the car might not work properly?

A: It might be the low power of the batteries, please try adding the value of TPBot's speed and test again.