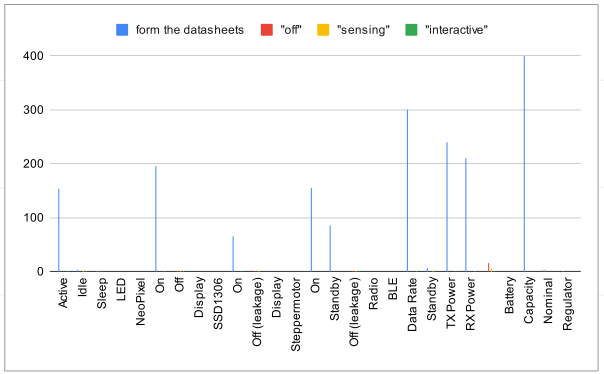
System Parameters (defined by hardware)			Profiles (usage of each component mode - defined by software and usage)			
	form the datasheets					
			"off"	"sensing"	"interactive"	
Processor						
XiaoESP32C3						
Active	154	mW	0%	5%	70%	
Idle	3	mW	0%	90%	25%	
Sleep	1	mW	100%	5%	5%	
LED						
NeoPixel						
On	195	mW	0%	5%	20%	
Off	0	mW	100%	95%	80%	
Display						
SSD1306						
On	66	mW	0%	10%	100%	
Off (leakage)	0	mW	100%	90%	0%	
Display						
Steppermotor						
On	155	mW	0%	0%	0%	
Standby	86	mW	0%	0%	0%	
Off (leakage)	0	mW	100%	100%	100%	
Radio						
BLE						
Data Rate	300	bps	0%	0%	100%	
Standby Power	7	mW	0%	100%	0%	
TX Power	240	mW	0%	0%	60%	
RX Power	210	mW	0%	0%	40%	
			16	7	1	hours/day typical usage
Battery						
Capacity	400	mAh				
Nominal Voltage	4	V				
Regulator Efficiency	99%					



Total power in profile (mw)			Maximum Time	
"off"	0.89	mW	1646.3	hours
"sensing"	32.9885	mW	44.4	hours
"interactive"	741.65325	mW	2.0	hours
Effective Battery Capacity				
	1465.2	mW*h		
Days of Use	**1.48**	**days**		
Hours of Use	**35.63**	**hours**		

REFLECTIONS : WHAT DID YOU LEARN FROM ANALYZING YOUR POWER. TALK ABOUT SOME POTENTIAL TRADEOFFS.

From this assignment, I learn that the active mode uses way more power than sleep mode. Also, the display and wireless connection will take a huge part of the power and is really easy to drain the battery. The standby mode will trade off the ability of response time to battery usage. And with BLT device the device will trade of the usage to connection with my other type of device.

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