

Power Budget

Team Number: 206

Project Name: EGR 304 Project

Team Member Names: Zane, Muhir, Adrian

Version: #1

[illegible]

+5V Power Rail	Component Name	Part Number	Supply	Qty.	Absolute	Total	Unit
	MicroController	PIC18F57Q43-CNA	+1.8-5.5V	1	500	500	mA
	Temperature Sensor	TMP36	2.7-5.5V	1	0.05	0.05	mA
						Subtotal	500.05
						Safety Margin	25%
						Total Current Required on +5V Rail	625.0625
Regulator	+5V Regulator	LM7805CV	(range)	1	1000	1000	

Total Remaining Current Available on +5V Rail						374.9375	mA
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External Power Source 1	Component Name	Part Number	Supply	Output	Absolute	Total	Unit
Power Source 1 Selection	Plug-in Wall Supply	(full part number)	12VAC	+V12	5000	5000	mA
Power Rails Connected to External Power Source 1	+5V Regulator	LM7805	+5- 35V	1	1000	1000	mA
	+5V Regulator	LM7805	+5- 35V	1	1000	1000	mA
	+5V Regulator	LM7805	+5- 35V	1	1000	1000	mA
Total Remaining Current Available on External Power Source 1						2000	

Calculated Battery Life							
	Component Name	Part Number	Supply		Capacity	Required	
	n/a	n/a	n/a		n/a	#REF!	hours
Battery Life						#VALUE!	

Notes:
