

Power Budget

Team Number: 206

Project Name: EGR 304 Project

Team Member Names: Zane, Muhir, Adrian

Version: #1

<i>+5V Power Rail</i>	Component Name	Part Number	Supply	Qty.	Absolute	Total	Unit
	MicroController	PIC18F57Q43-CNA1	+1.8-5.5V	1	500	500	mA
	Temperature Sensor	TMP36	2.7-5.5V	1	0.05	0.05	mA
					<i>Subtotal</i>	500.05	mA
					<i>Safety Margin</i>	25%	mA
					<i>Total Current Required on +5V Rail</i>	625.0625	mA
<i>Regulator</i>	+5V Regulator	LM7805CV	(range)	1	1000	1000	

Total Remaining Current Available on +5V Rail					374.9375	mA
Component Name	Part Number	Supply	Output	Absolute	Total	Unit
Plug-in Wall Supply	(full part number)	12VAC	+V12	5000	5000	mA
+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	
Component Name	Part Number	Supply		Capacity	Required	
n/a	n/a	n/a		n/a	#REF!	hours
<i>Battery Life</i>					#VALUE!	