Team Number:	103	
Project Name:	Automatic Door Opener (motor)	
Team Member Names:		Isaac Smith
Version:	1	

All Major Components	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)
Potentiometer	PTA3043-2010C	PTA3043-2010C	0-350	1	0	0
H-bridge	L9110H H-Bridge	4489	2.5V-12V	1	800	800
Motor	High Torque 12V	5840WG-555PM	0-12V	1	650	650
						0
					Subtotal	1450
					Safety Margin	15%
					Total Current	1667.5
SOURCE						
					Total Remaining	3332.5

(+)12V Rail	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)
Potentiometer	PTA3043-2010C	PTA3043-2010C	0-350	1	0	0
H-bridge	L9110H H-Bridge	4489	2.5V-12V	1	800	800
Motor	High Torque 12V	5840WG-555PM	0-12V	1	650	650
					Subtotal	1450
					Safety Margin	15%
					Total Current	1667.5
SOURCE	Power Supply	12V 5A switching	352	12V	1	5000
					Total Remaining	

(+)5V rail	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)
	Microcontroller	PIC18F57Q43-C	+1.8 - 5.5V	1	350	350
					Subtotal	
					Safety Margin	
					Total Current	
SOURCE	+5V Regulator	LM7805	+5 - 35V	1	1500	1500
					Total Remaining	

External Power Source 1	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)
Power Supply	12V 5A switching	352	12V	1	5000	5000