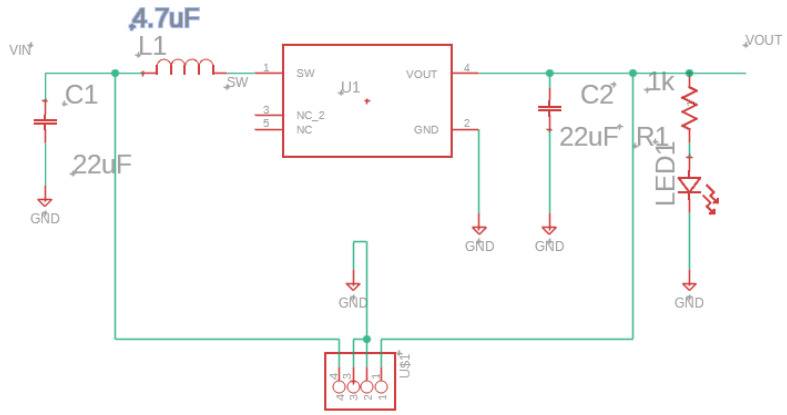
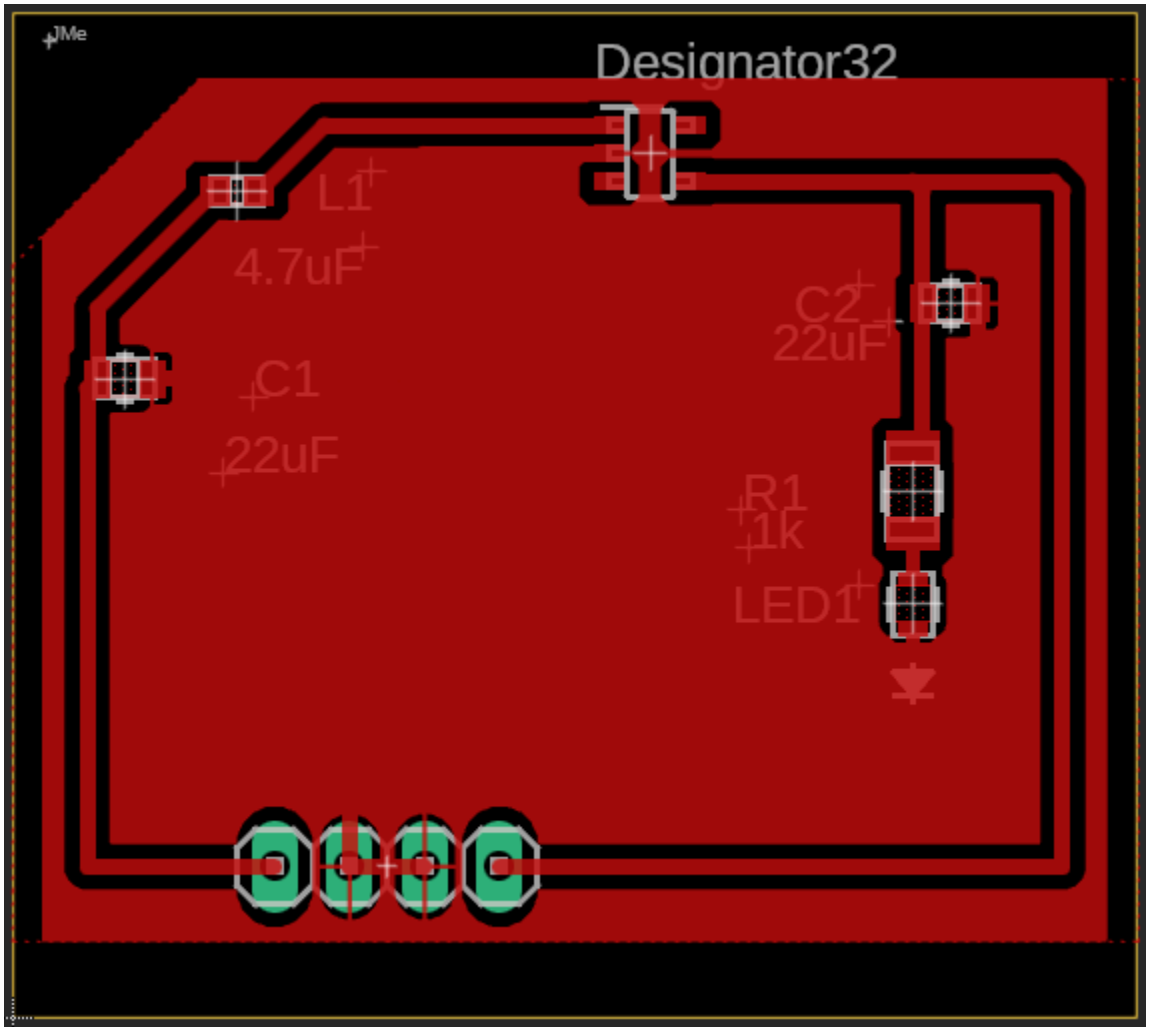
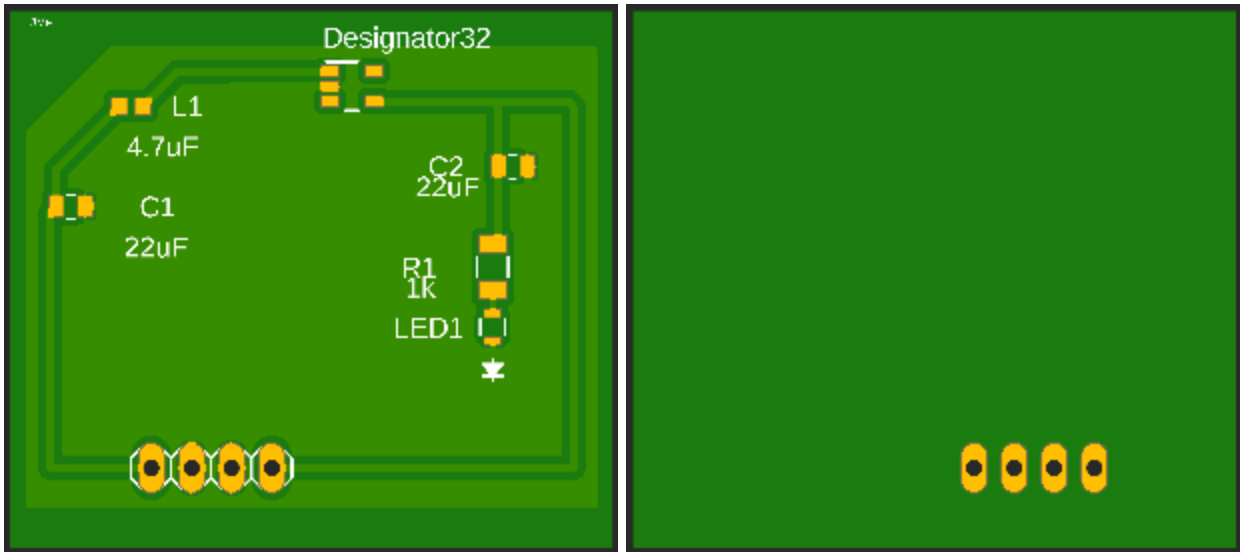
Regulator PCB Design

James Eyler

3.3V Regulator







Bill of Materials:

C1	3.81	21.59	0.00	22uF	CAP_CL21_SAM
C2	31.75	24.13	180.00	22uF	CAP_CL21_SAM
L1	7.62	27.94	180.00	4.7uF	IND_LQM18PXXXXFRX_MUR
LED1	30.48	13.97	90.00		LED_BS75000_WRE
R1	30.48	17.78	270.00	1k	RES_RC1206_YAG
U$1	12.70	5.08	180.00		1X04
U1	21.59	29.21	0.00		DBV0005A_N

LearningSummary:

In this project I learned how to effectively use Fusion 360 in order to design a regulator onto a PCB board. I was able to successfully make sense of the initial output from the schematic onto the PCB, moving components to adjust airwaves in order to create actual traces that would connect the components on the PCB. I also learned how to view specs of my board such as the footprint, bill of materials, as well as the pick and place output for the manufacturer processing. I feel that this project was very helpful in my understanding of using the design software for the PCB board.