

EEE3099F

BOM and Circuit Diagram

Group 12

JNSRYA006 PLXSEA001 GVNKHA001

GitHub Repository

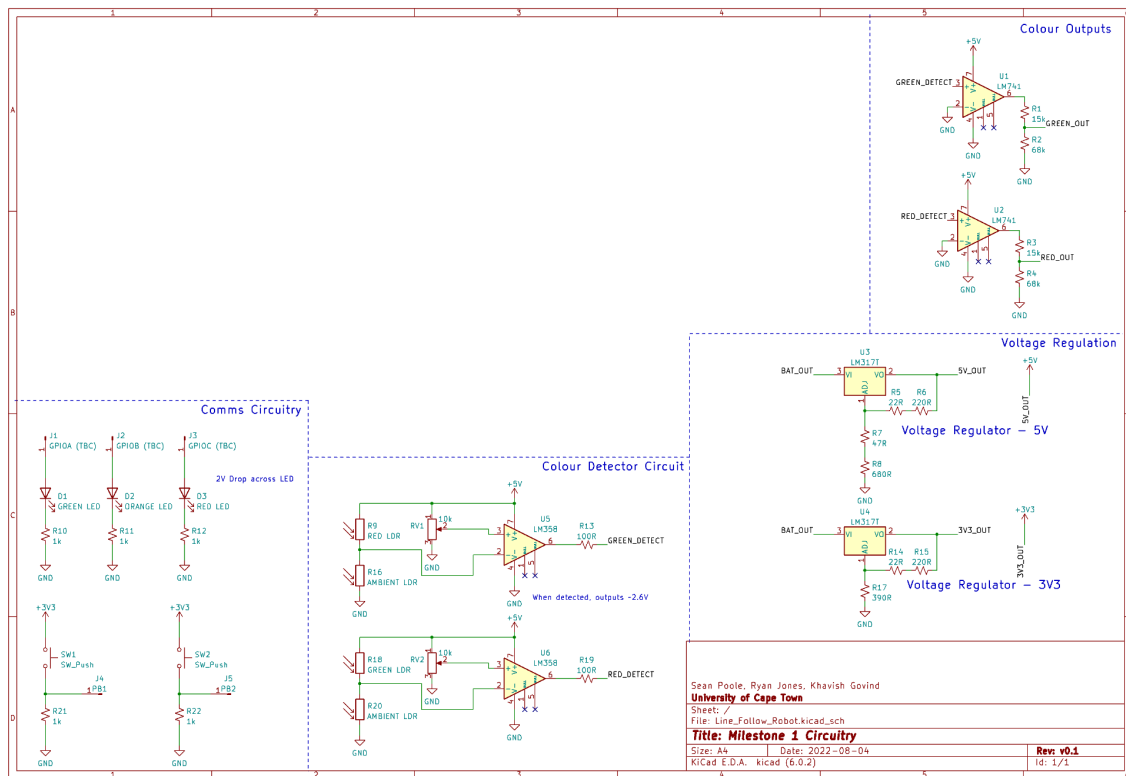


Figure 1: Veroboard Schematic v0.1

Part Name	Part Number	Reference	Quantity	White Lab Ref.	Value	
Op-Amp	1	U1, U2	3	LM741	LM741	
Op-Amp	2	U3, U4	3	LM317T	LM317T	
Op-Amp	3	U5, U6	3	LM358	LM358	
Resistor		R10, R11, R12, R21, R22	10	1k ohm	1k Ω	
Resistor		RV1, RV2	4	10k ohm	10K Ω	
Resistor		R17	2	390 ohm	390R	
Resistor		R5, R14	4	22 ohm	22R	
Resistor		R6, R15	4	220 ohm	220R	
Resistor		R8	2	680 ohm	680R	
LDR		R9, R16, R18, R20	8	LDR	LDR	
Green LED		D1	2	Ultra Bright LED(green)	Green	
Orange LED		D2	2	Ultra Bright LED(orange)	Orange	
Red LED		D3	2	Ultra Bright LED(red)	Red	
Push Button		SW1, SW2	4	CD37	Push Button	
Potentiometer			3	Potentiometer	10k - 20k	
VeroBoard		N/A	2 (10cm x 5cm)	VeroBoard	VeroBoard	
Green Film		N/A	1	Green Film	GreenFilm	
Red Film		N/A	1	Red Film	RedFilm	

Figure 2: BOM v0.1