https://github.com/Sidiment/Hardware-Software-Lab.git

My Resistor:

R1 = 220 ohm

R2 = 150 ohm

R3 = 24K ohm

R4 = 30K ohm

R5 = 360k ohm

R6 = 300k ohm

R7 = 5 ohm

R8 = 20 ohm

Output voltage	Vref × (1 + R2/R1) + I_{adj} × R2

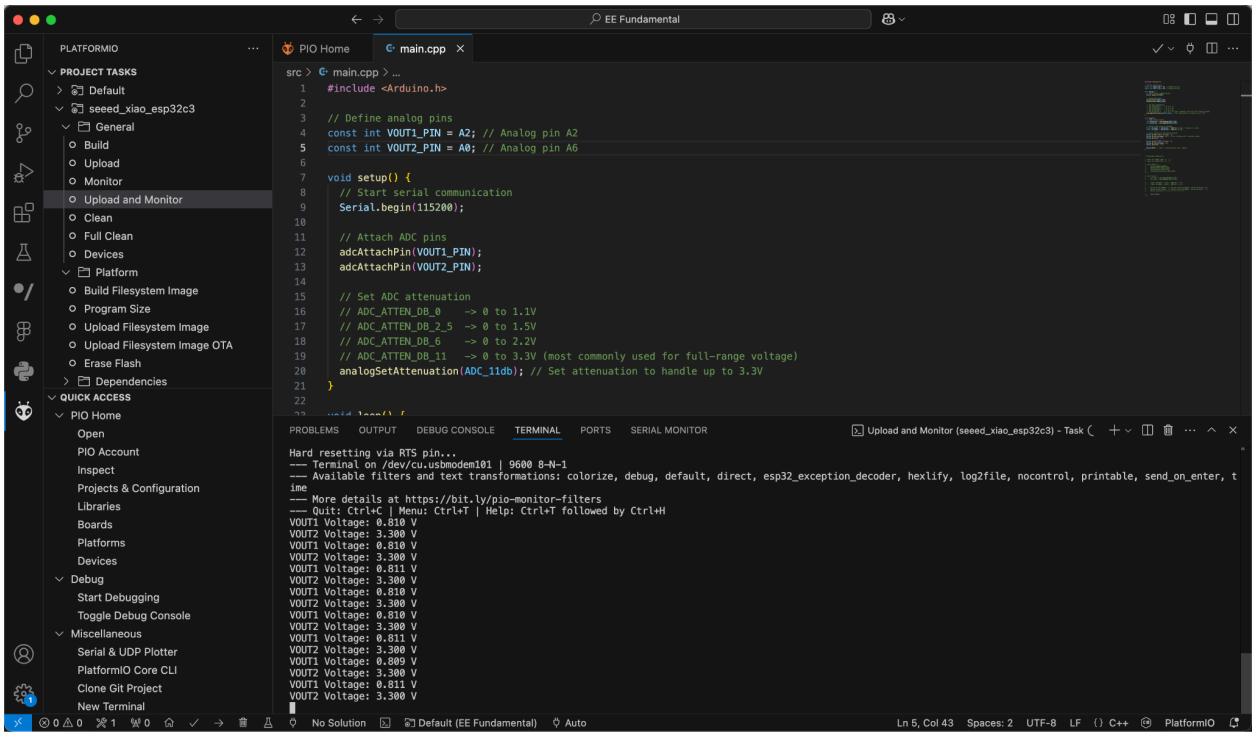
Where Vref = 1.25v Vout = 2.1v Iadj is often as 0 => R1 R2

R7 = (2.1v-2v)/2mA = 5ohm

$R_1 = \left(\frac{V_{OUT}}{V_{REF}} - 1\right) \times R_2$ => Vref = 1.2246 / Vout = 2.2v / R4 = 30.1k ohm => R3 = 24k ohm

R8 = 2.2v / 2mA ~= 20 ohm

$V_{OUT} = V_{REF}\left(1+\frac{R1}{R2}\right)$ let R6(R2) = 300k ohm R5 = 360k ohm



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Sheet 1

regulators

#	Reference	Qty	Value	Footprint	DNP
1	C1, C2	2	1uF	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	
2	C3, C4	2	1uF	Capacitor_SMD:C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	
3	C5, C6	2	1uF	Capacitor_SMD:C_0402_1005Metric_Pad0.74x0.62mm_HandSolder	
4	D1	1	LED	LED_SMD:LED_0805_2012Metric_Pad1.15x1.40mm_HandSolder	
5	D2	1	LED	LED_SMD:LED_0603_1608Metric_Pad1.05x0.95mm_HandSolder	
6	J1, J2, J3, J4	4	n.m.	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	
7	R1	1	240ohm	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	
8	R2	1	163.2ohm	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	
9	R3	1	24k ohm	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	
10	R4	1	30.1K ohm	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	
11	R5	1	360k ohm	Resistor_SMD:R_0402_1005Metric_Pad0.72x0.64mm_HandSolder	
12	R6	1	300k ohm	Resistor_SMD:R_0402_1005Metric_Pad0.72x0.64mm_HandSolder	
13	R7	1	5ohm	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	
14	R8	1	20 ohm	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	
15	U1	1	LM317_SOT-223	Package_TO_SOT_SMD:SOT-223-3_TabPin2	
16	U2	1	TPS79301-EP	Package_TO_SOT_SMD:SOT-23-6	
17	U3	1	MIC5377	Package_TO_SOT_SMD:SOT-353_SC-70-5	

Text | LED