

28.4.1

1. SDO4 B13

SDI4 B14

SCK4 B12

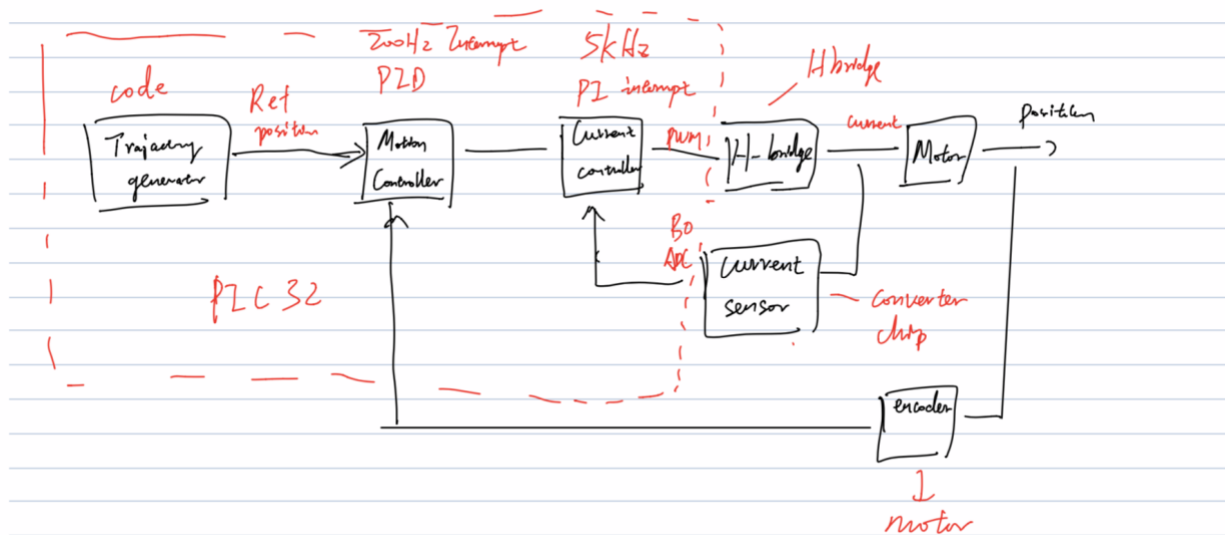
SS4 B9

2. AN0 B0

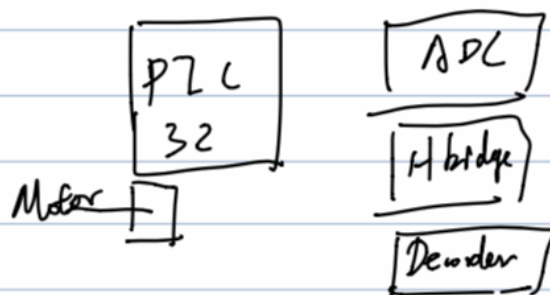
3. OC1 TIMER3 D0

4. Timer 4 for 200 hz. Timer 2 for 5k ISR.

5.



6.



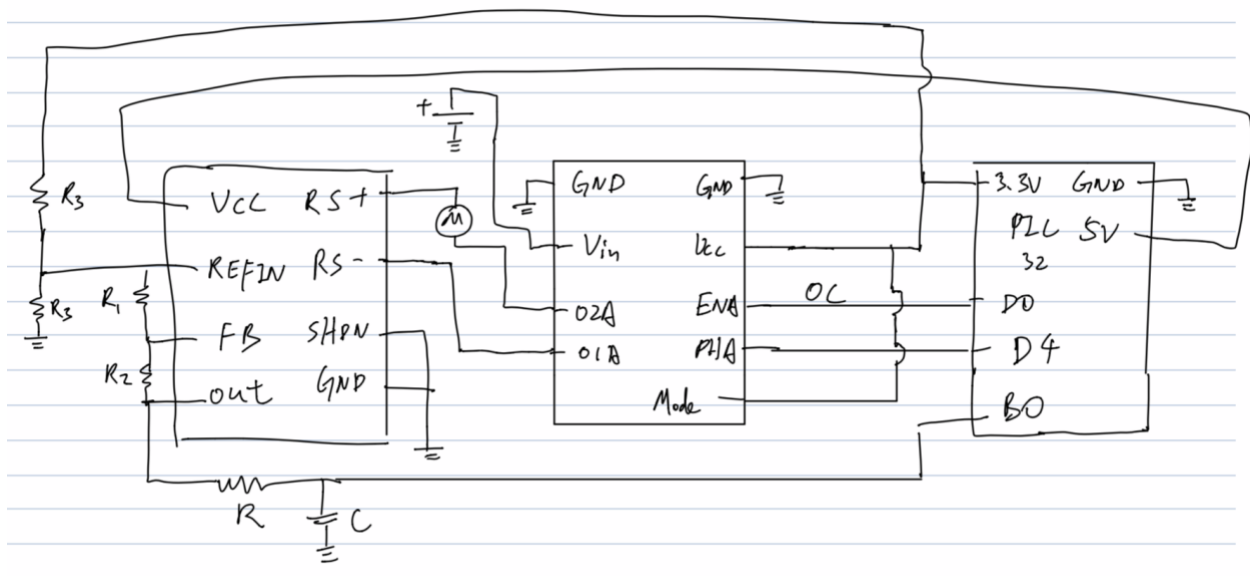
28.4.7

1.330 ohms

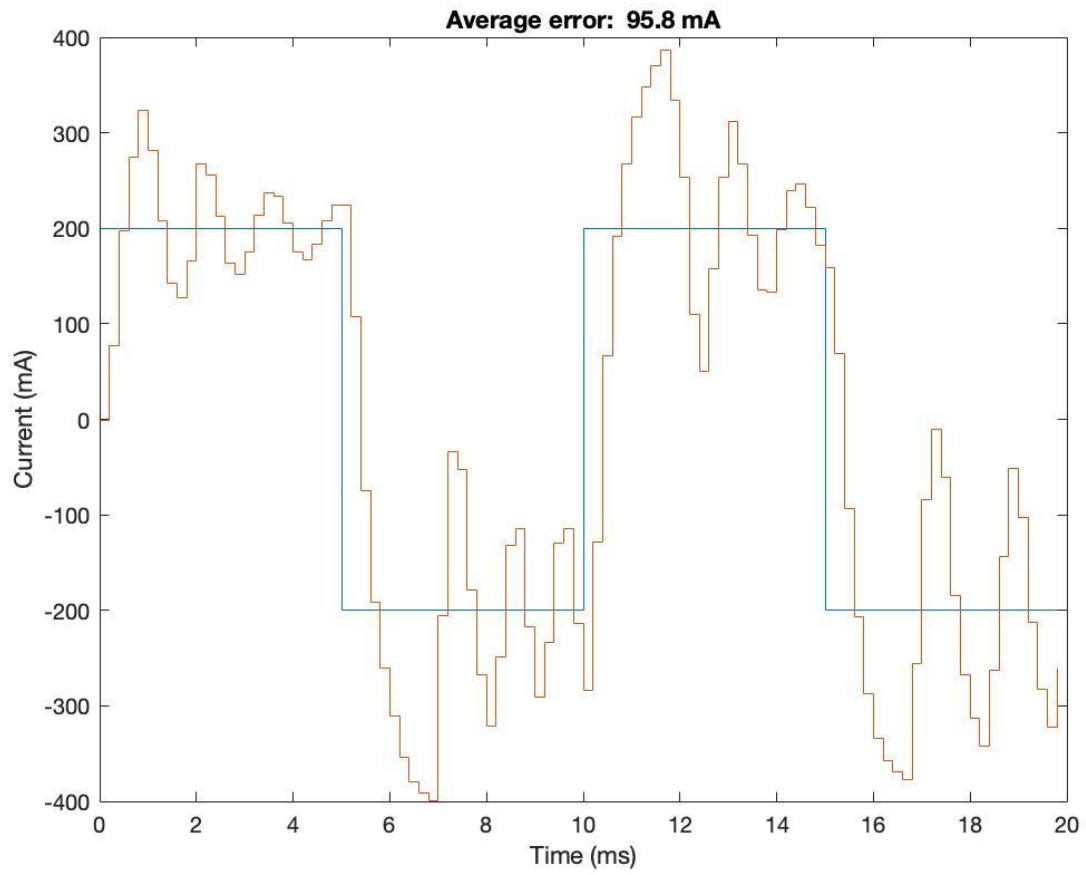
2. $I_{max} = 2 * 6.5 / 15 = 0.86A$
3. $V_{max} = 0.86A * 15m\ ohms = 0.013\ V$
4. $G=123\ R1=1k\ R2=150k$
5. $1\mu f\ 1k$
- 6

R0	Expected I (mA)	Measured I (mA)	Sensor (V)	Count
10 RS+	650	540	2.8	899
20	325	270	2.2	715
40	162	150	1.8	616
Open		0	1.52	507
40	-162	-180	1.12	403
20	-325	-270	0.84	300
10	-650	-510	0.28	121

28.4.9.8



28.4.10.5: Kp 0.5, ki 0.1 unit in mA.



28.4.12.5 kp20, ki 0.005, kd 400

