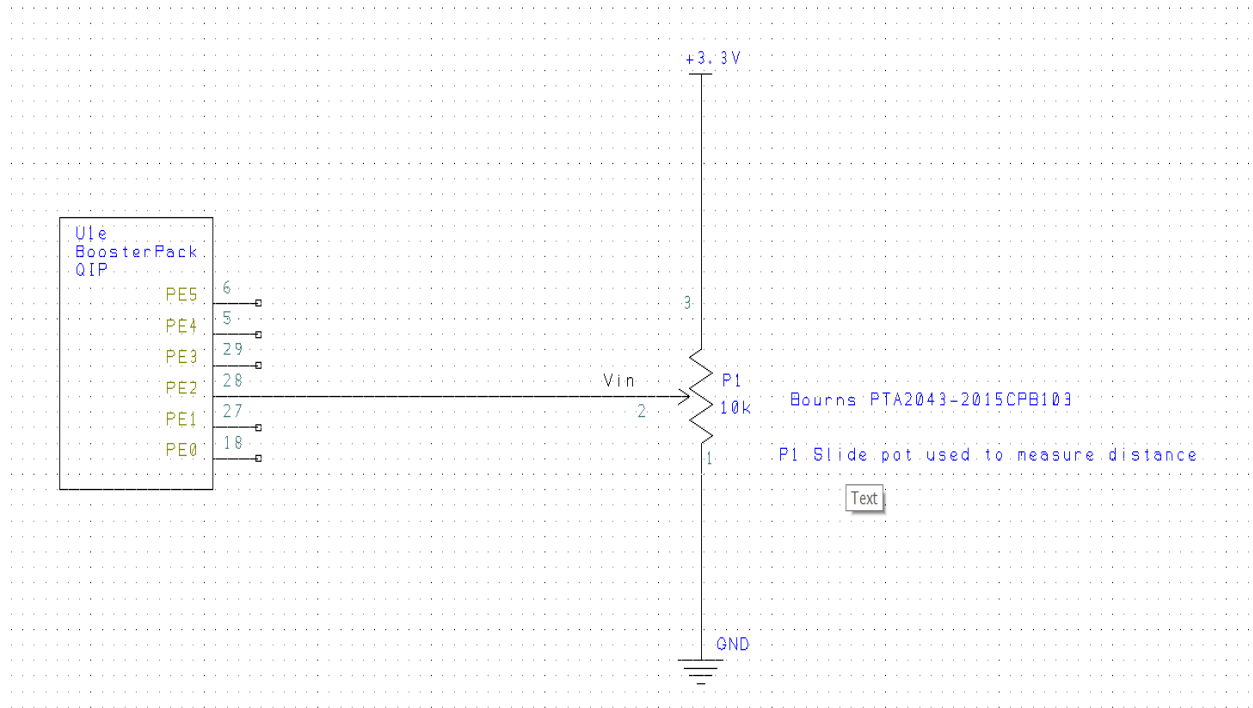


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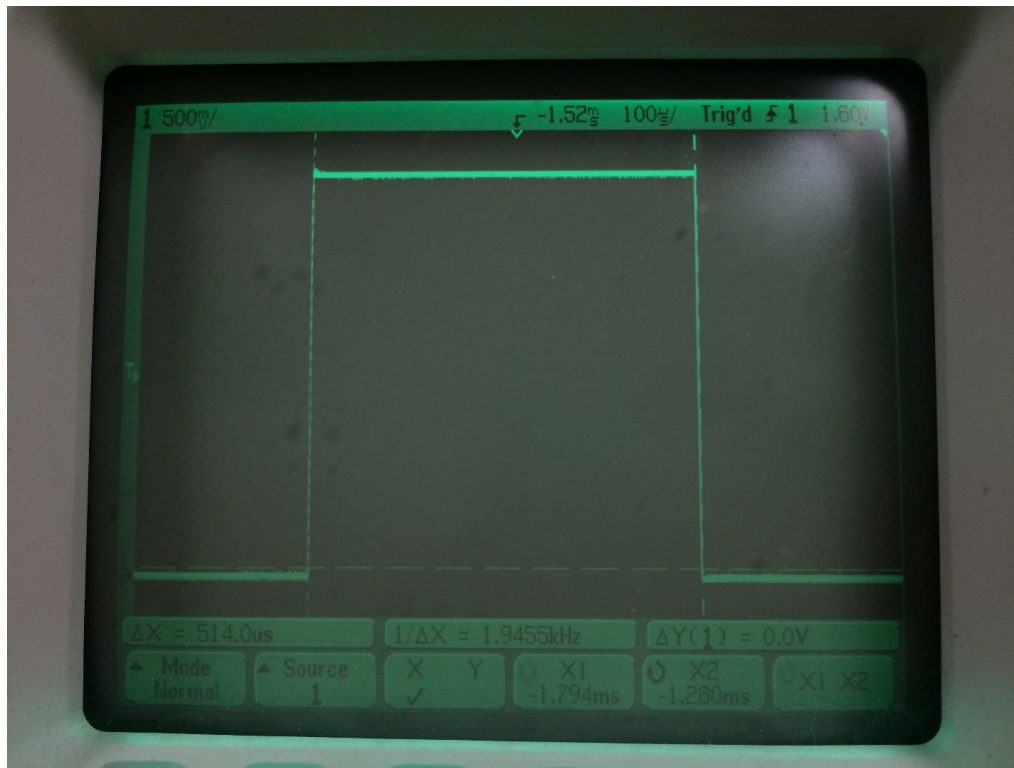


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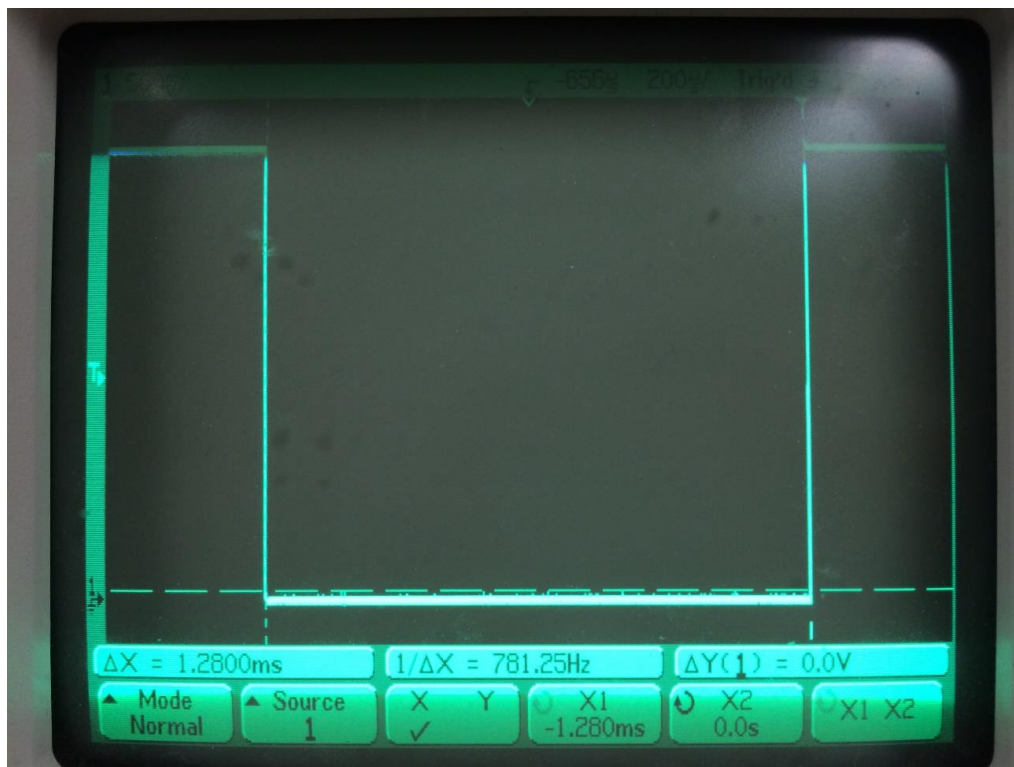
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ADC sampling time

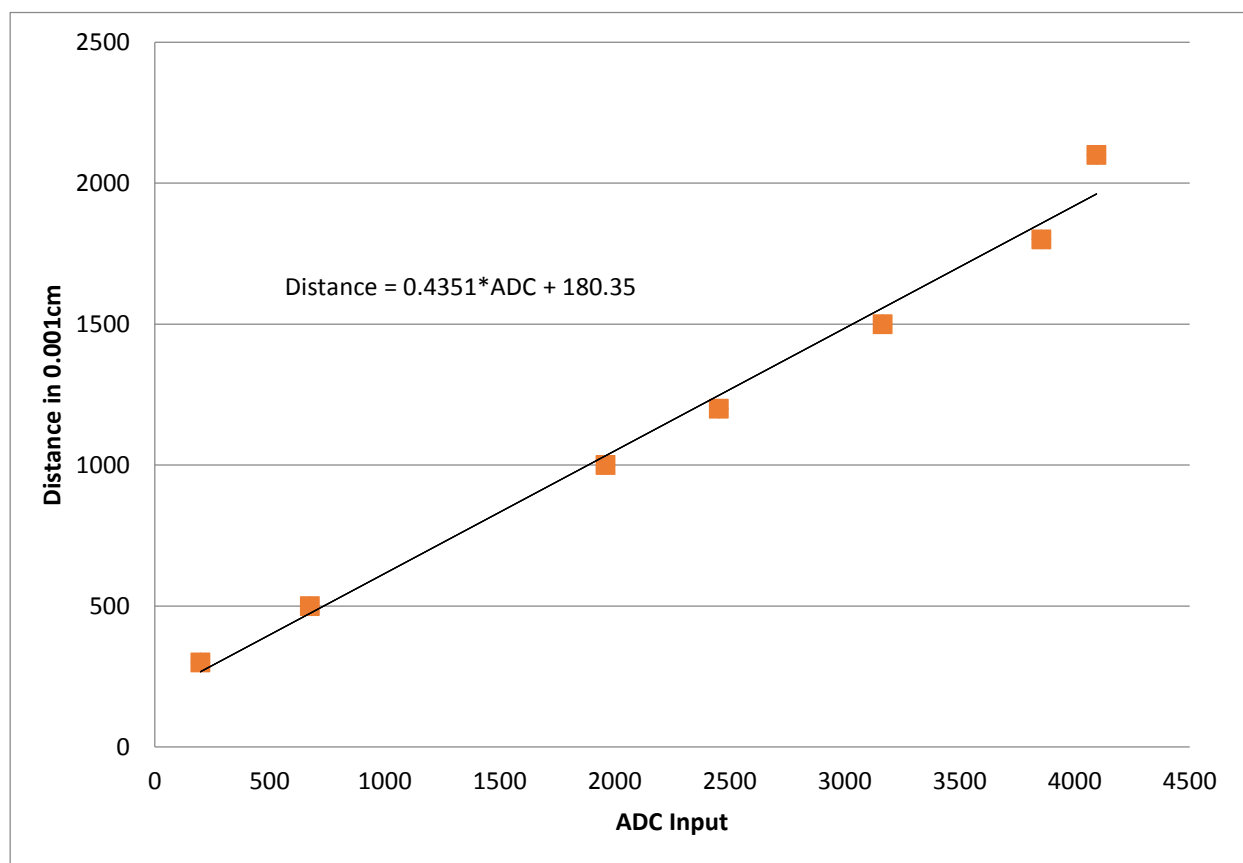


LCD display time



Lab 8 Report

Position	Analog Input	ADC Sample	Correct Fixed-point	Measured Fixed-point
0.3	0.159	199	300	266.8
0.5	0.548	675	500	473.8
1	1.587	1961	1000	1034
1.2	1.981	2454	1200	1250
1.5	2.558	3166	1500	1556
1.8	3.111	3856	1800	1858
2.1	3.309	4095	2100	1964

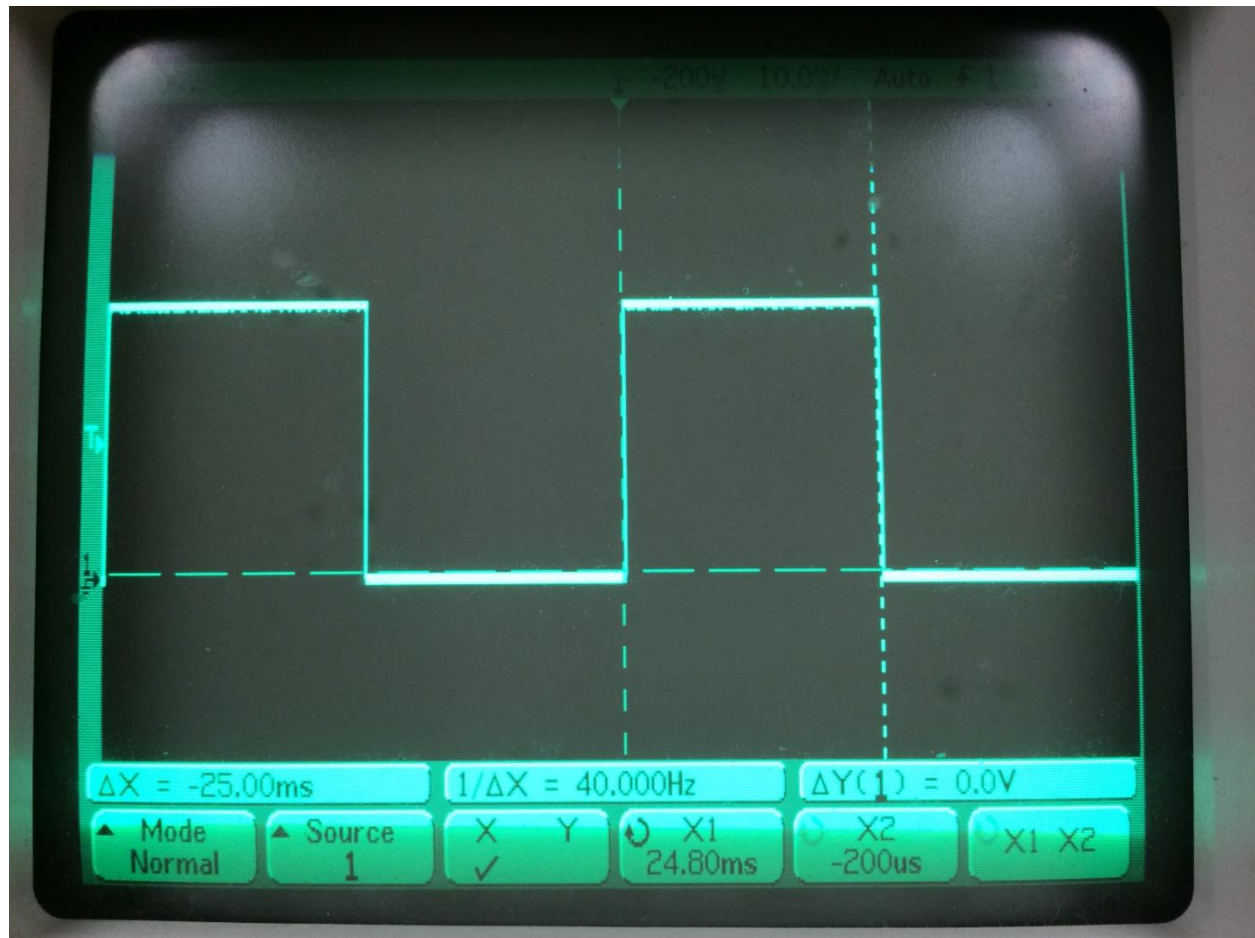


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Sampling rate = 40 Hz



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New Position (X_{ti})	Measured Posision (X_{mi})	Error ($X_{ti} - X_{mi}$)
0.2	0.1863	0.0137
0.4	0.392	0.008
0.6	0.6116	-0.0116
0.8	0.81	-0.01
1	1.029	-0.029
1.3	1.346	-0.046
1.5	1.545	-0.045
1.8	1.829	-0.029

Average accuracy = 0.024