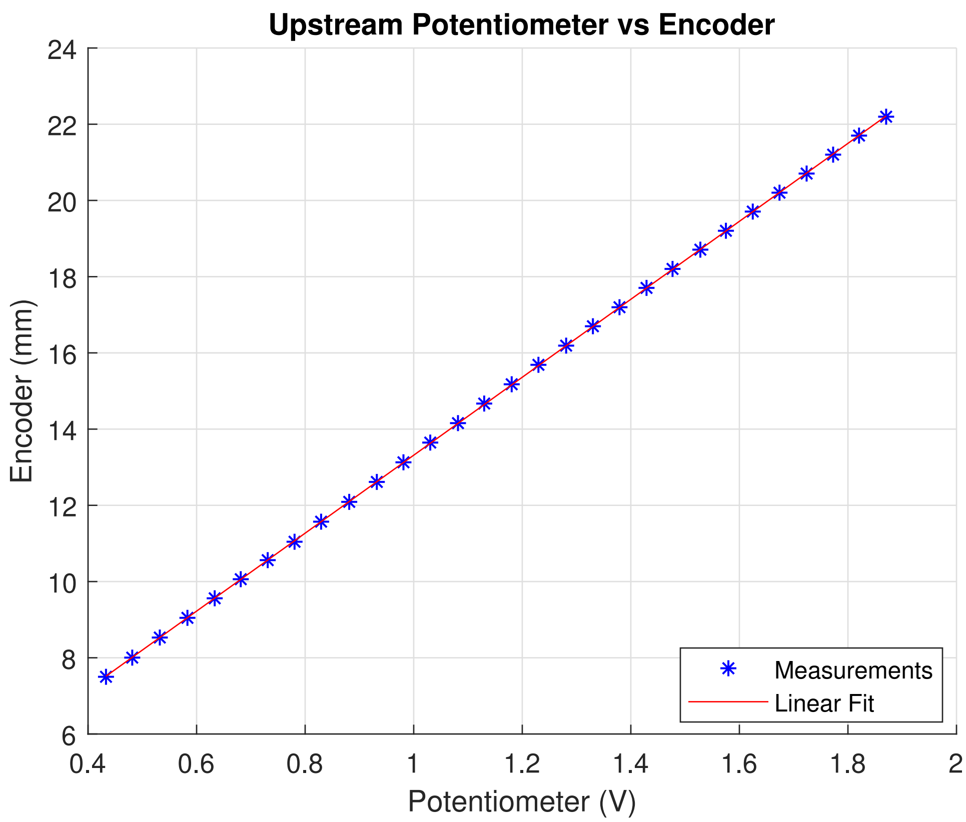
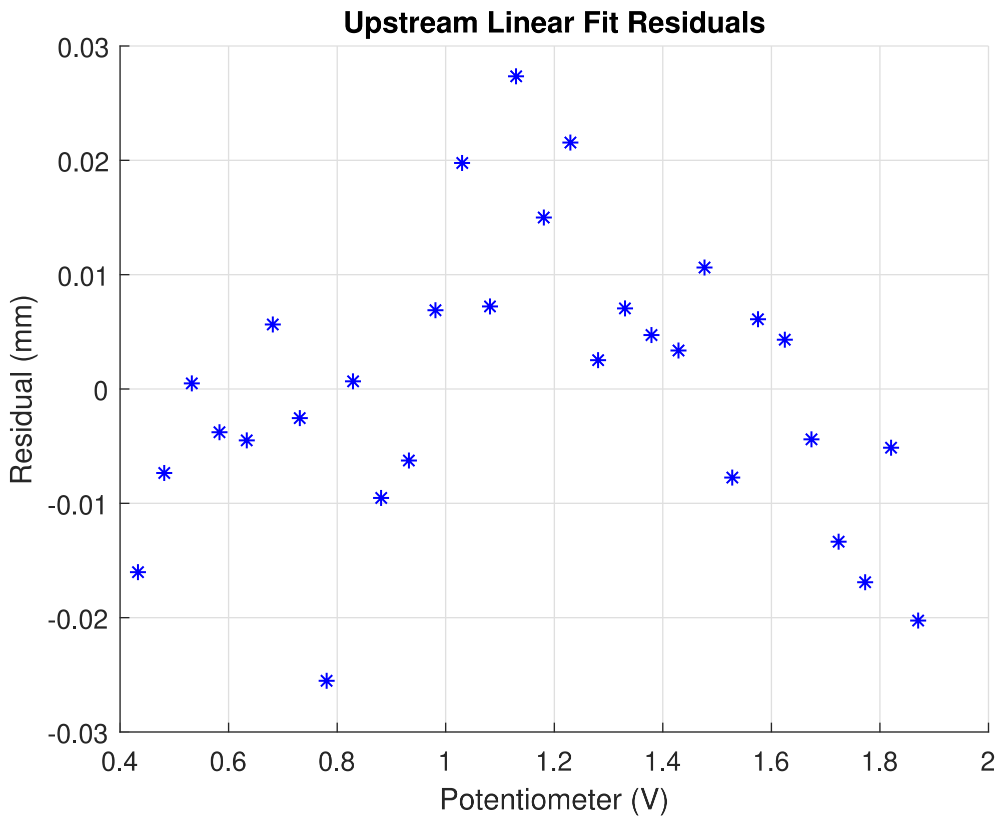
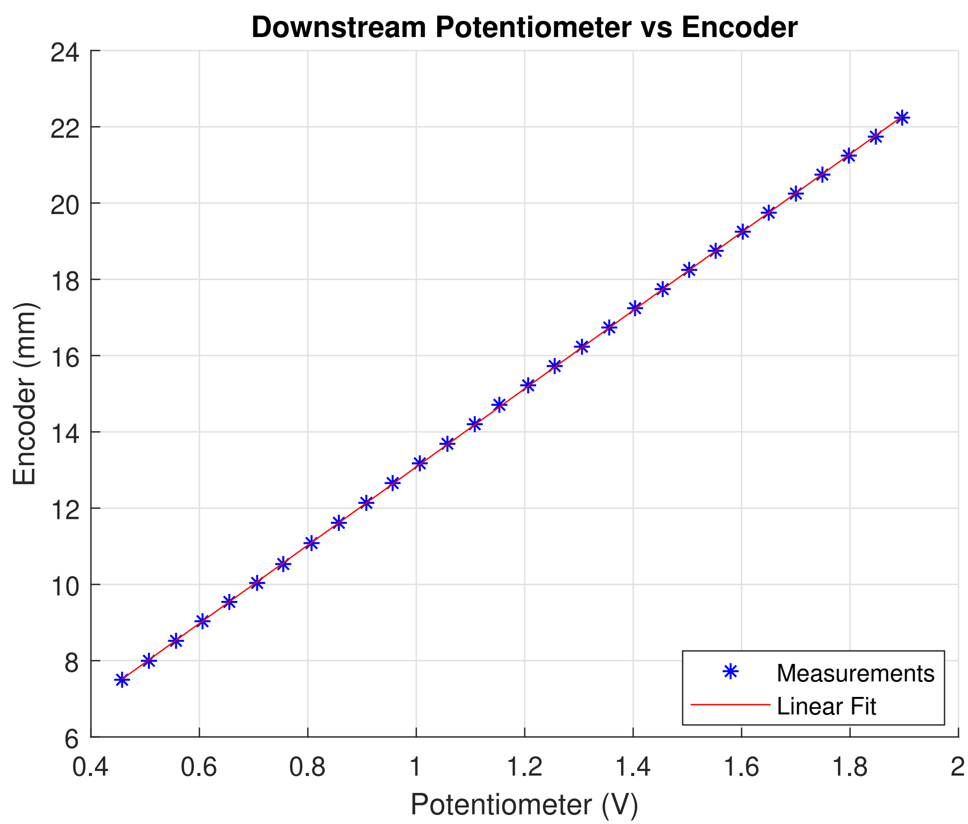
SLAC Magnetic Measurements#
Date: 06-21-2018#
Time: 18:39:12#

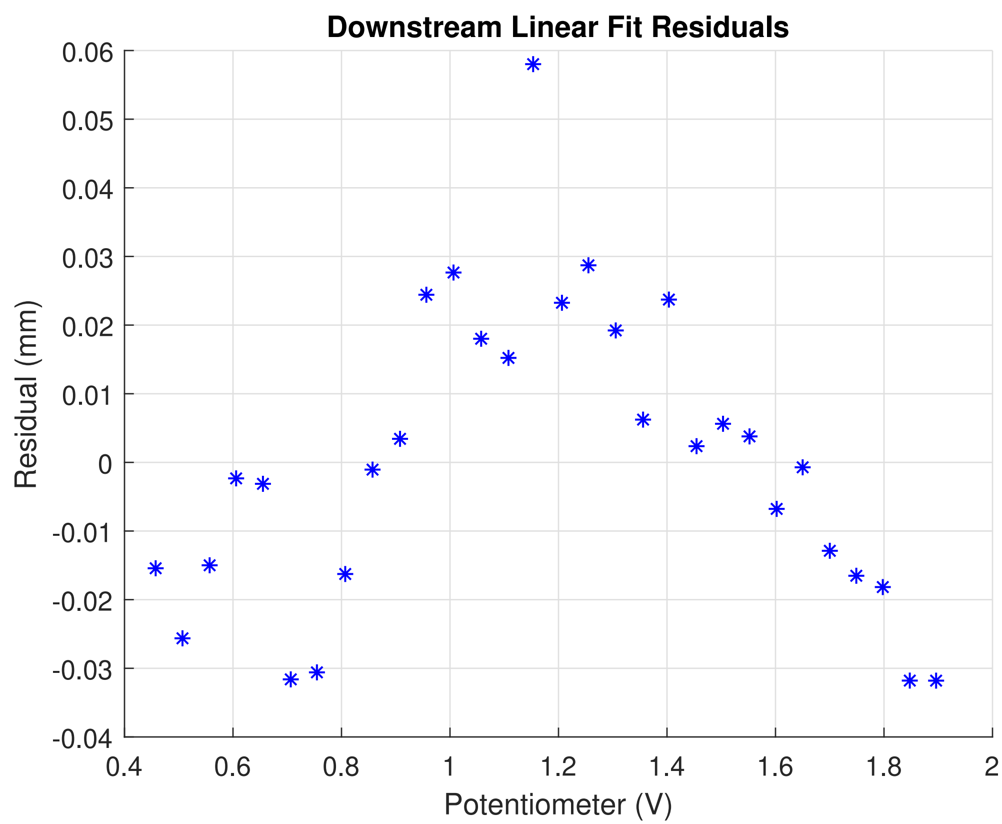


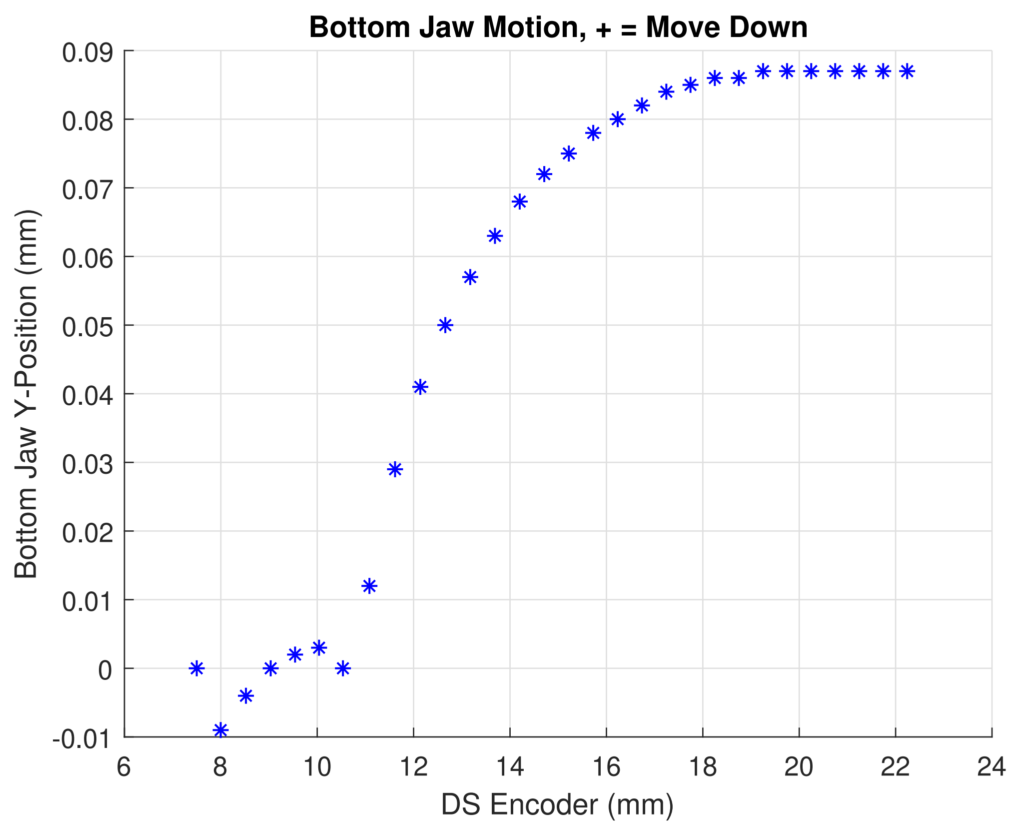
Upstream Potentiometer vs Encoder
Encoder (mm)
Potentiometer (V)
Measurements
Linear Fit
24
22
20
18
16
14
12
10
8
6
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2


Upstream Linear Fit Residuals
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
Residual (mm)
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Potentiometer (V)

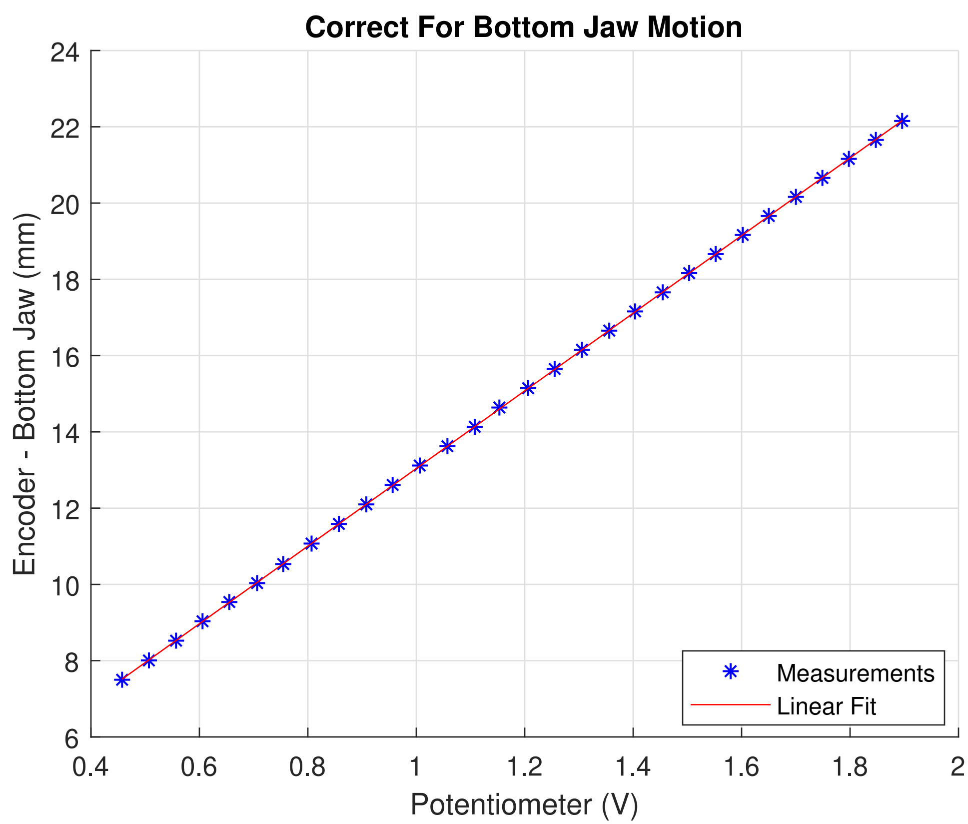


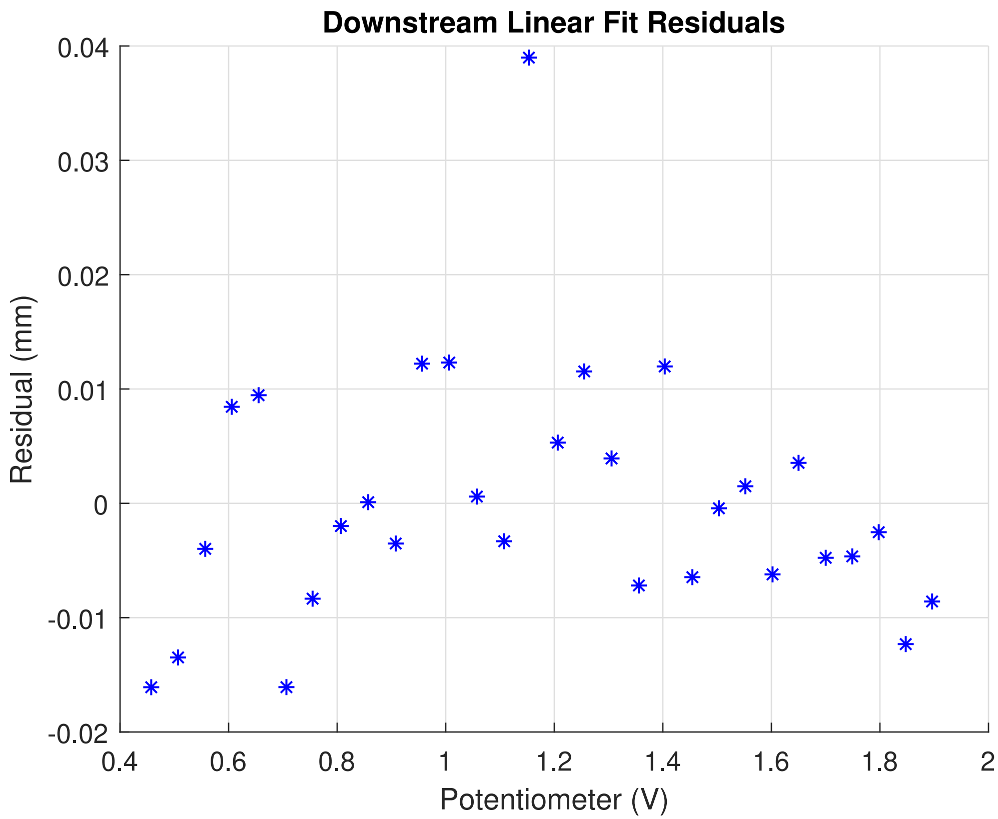
Downstream Potentiometer vs Encoder
Encoder (mm)
Potentiometer (V)
24
22
20
18
16
14
12
10
8
6
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Measurements
Linear Fit


Downstream Linear Fit Residuals
Residual (mm)
Potentiometer (V)
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
-0.04
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2



Bottom Jaw Motion, + = Move Down
Bottom Jaw Y-Position (mm)
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
6
8
10
12
14
16
18
20
22
24
DS Encoder (mm)


Correct For Bottom Jaw Motion
24
22
20
18
16
14
12
10
8
6
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Potentiometer (V)
Encoder - Bottom Jaw (mm)
Measurements
Linear Fit



Downstream Linear Fit Residuals
Residual (mm)
Potentiometer (V)
0.04
0.03
0.02
0.01
0
-0.01
-0.02
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2