## Lifter VI

VIBODHA B
UOC, UVA

## Updates on lifter

- Relationship between the ADC voltage vs Step count

$$
Y=-4009.5 X+26560
$$

- This trend line was calculated by moving the lifter up and down 8 times.
- X : ADC voltage , Y : Step count derived from ADC value
- 

| ADC (X) | Step count (S) | Estimated (Y) | Difference (Y-S) | Difference \% |
| :--- | :--- | :--- | :--- | :--- |

$$
\text { Difference } \%=\frac{|Y-S|}{S} X 100
$$

Data set 1 Lifter movement : Top ---- > Bottom

Difference\%


Difference


Data set 2 Lifter movement : Top ---- > Bottom

Difference\%


Step Change


Data set $3 \quad$ Lifter movement : Bottom ---- > Top Difference\%


I think the repeated pattern in the step difference plot is due to a synchronization issue when recording the ADC I will re-record the ADC and step counts


