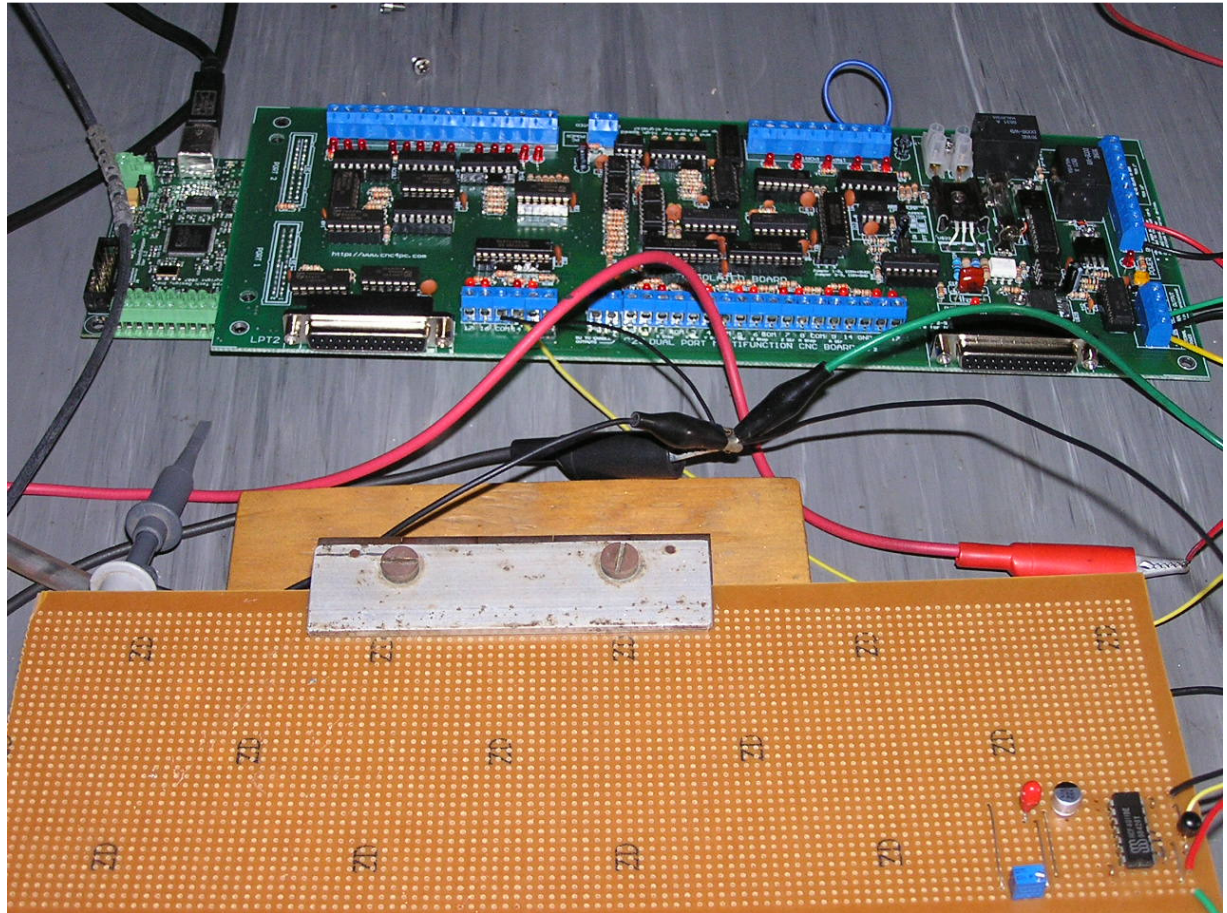
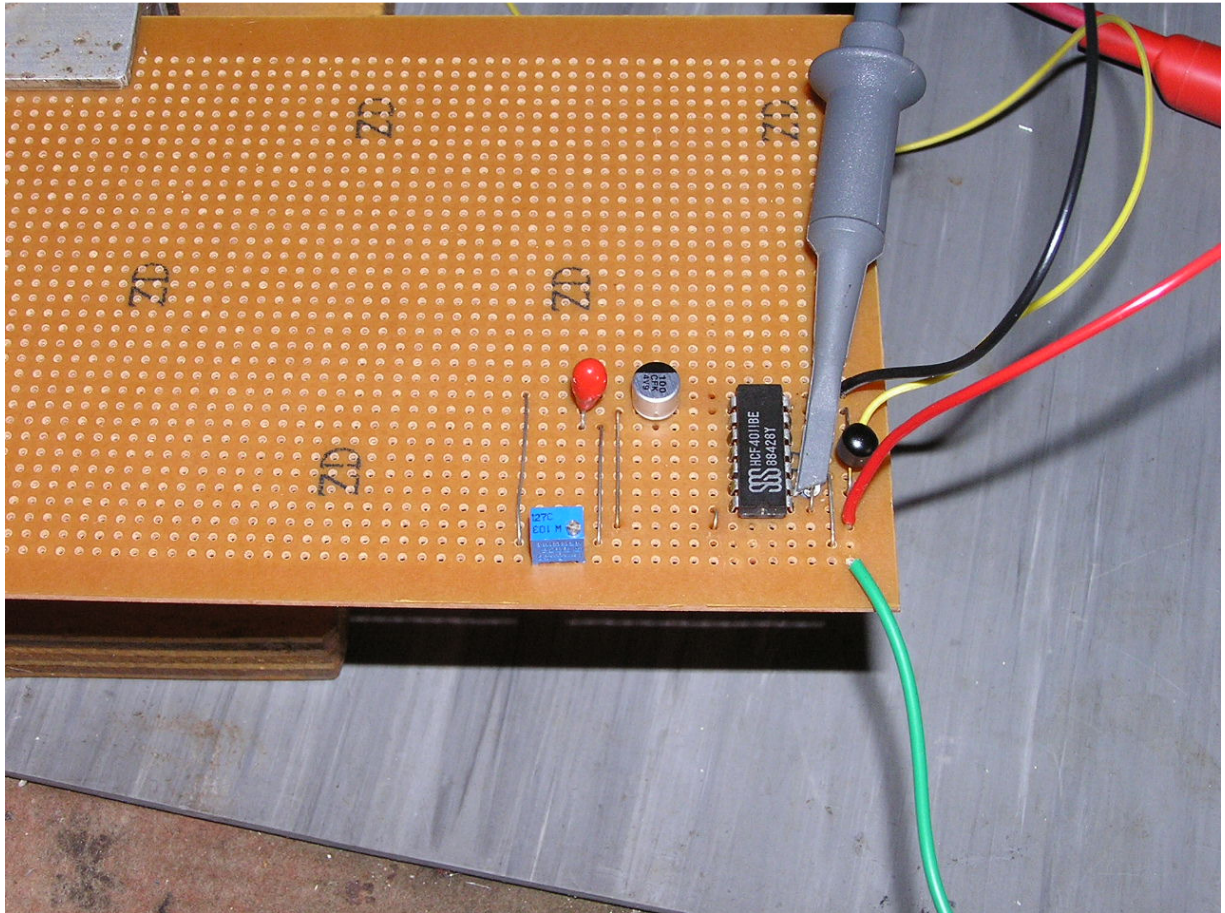


PWM to Analogue Voltage Converter Schematic



PWM to Voltage Converter Prototype showing Smooth Stepper and C23 BOB



PWM to Voltage Converter Prototype 1

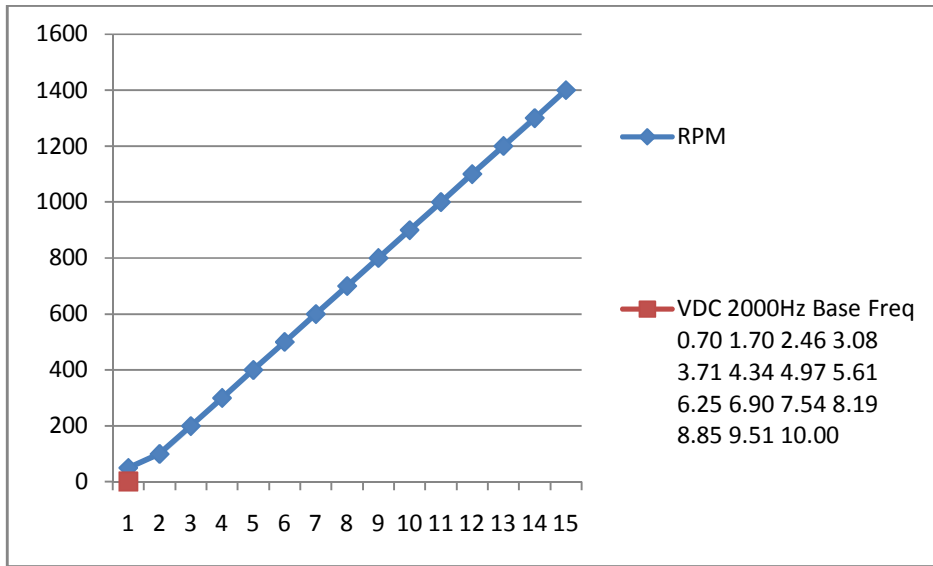
RPM	VDC 2000Hz Base Freq (VDC)	VDC 1000Hz Base Freq (VDC)
50	0.70	1.14
100	1.70	1.58
200	2.46	2.21
300	3.08	2.84
400	3.71	3.47
500	4.34	4.11
600	4.97	4.75
700	5.61	5.39
800	6.25	6.04
900	6.90	6.69
1000	7.54	7.35
1100	8.19	8.01
1200	8.85	8.66
1300	9.51	9.32
1400	10.00	10.00

Measured Data

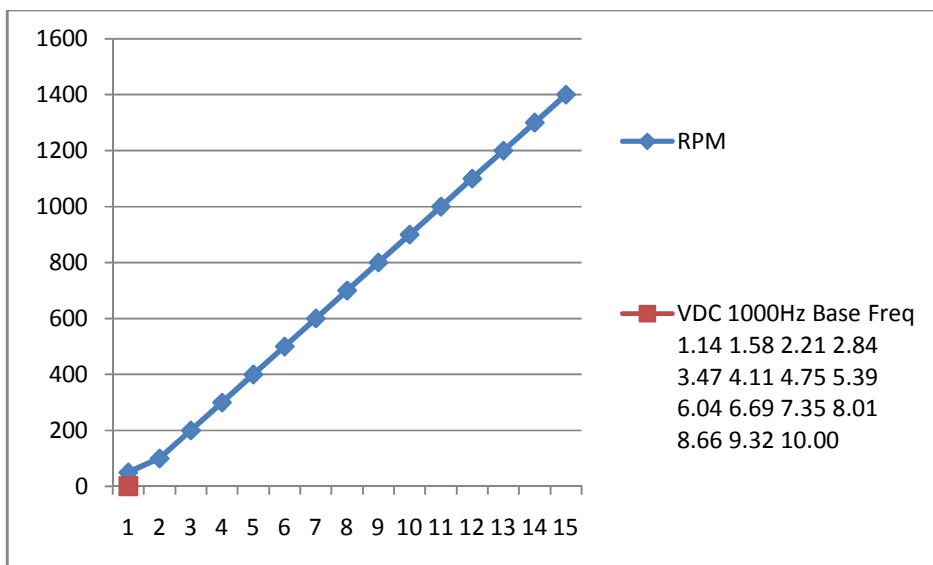
Voltage Measured at O/P of Converter

Mach3 used as PWM Signal Source

(RPM selected from MDI Screen using S Commands)



Linearity Curve with 2000Hz PWM Base Frequency



Linearity Curve with 1000Hz PWM Base Frequency