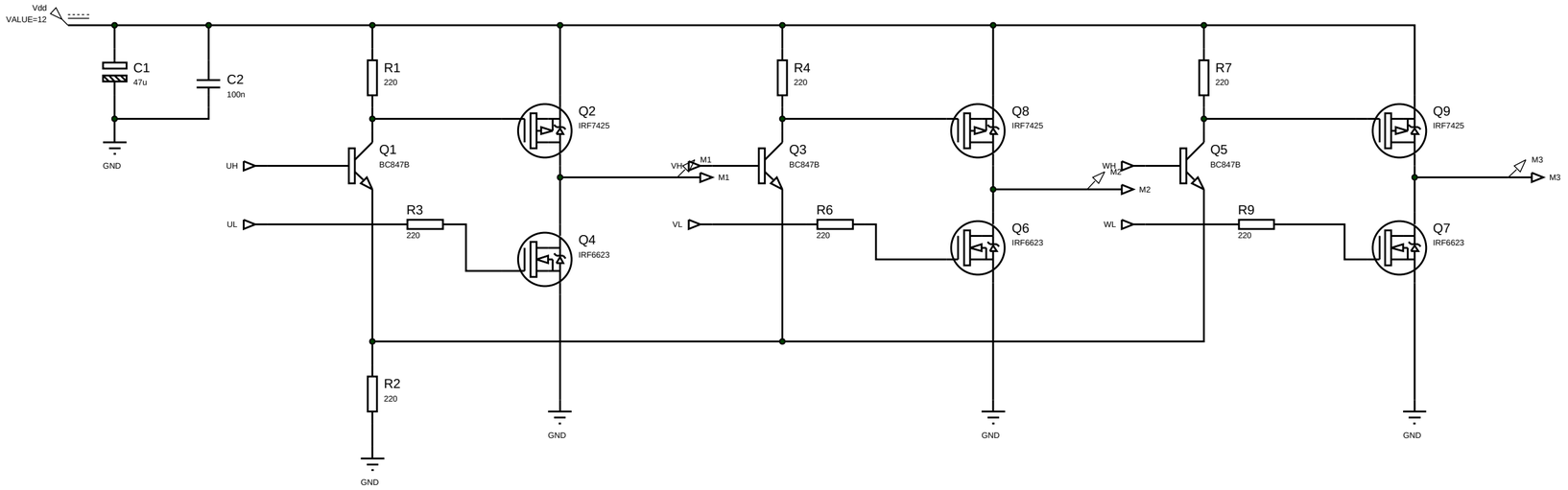
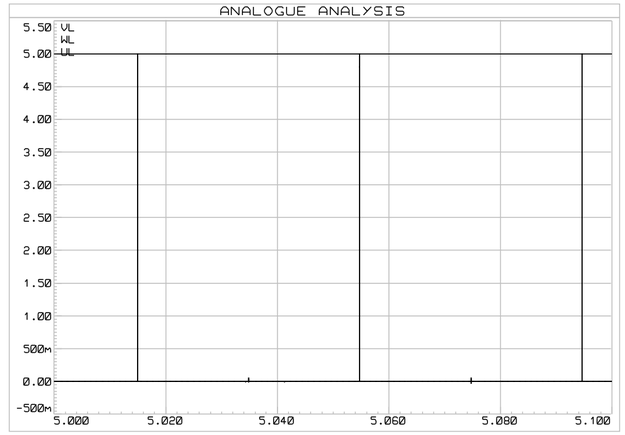
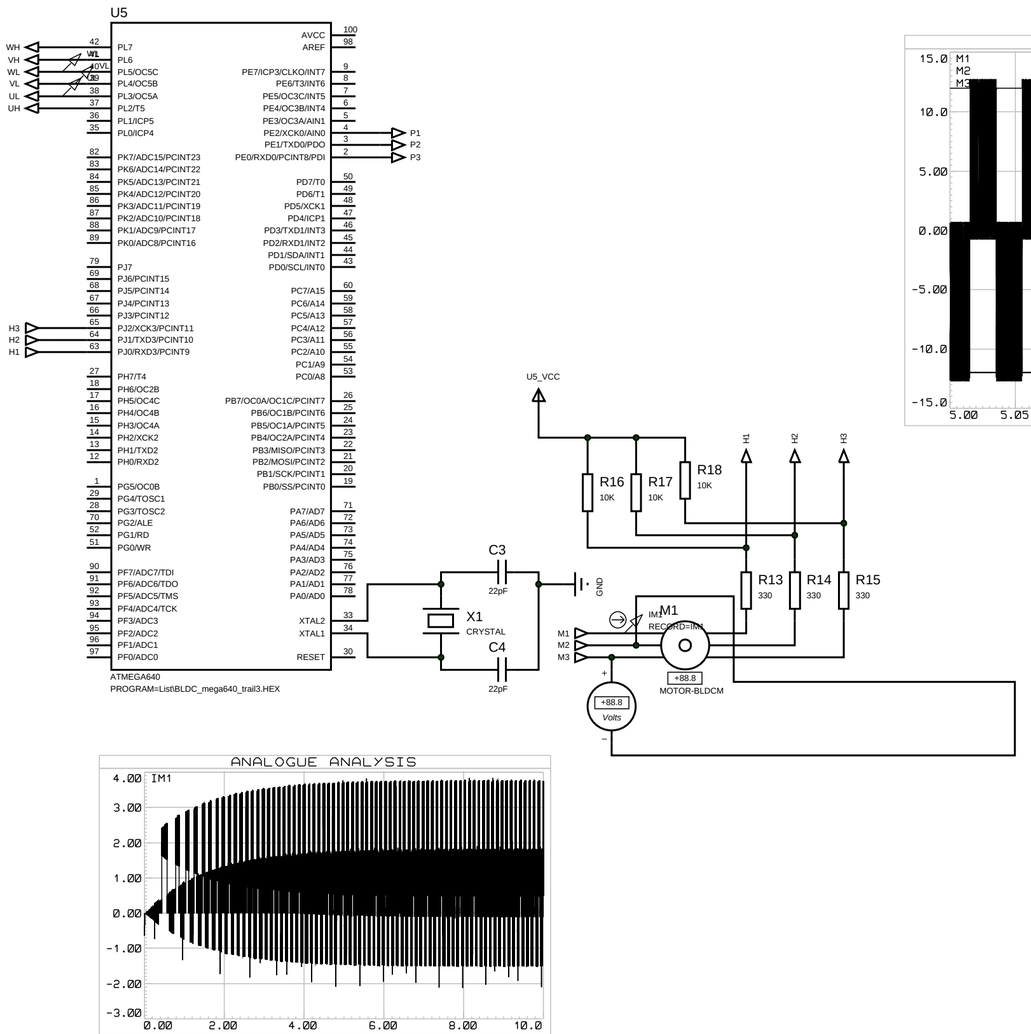
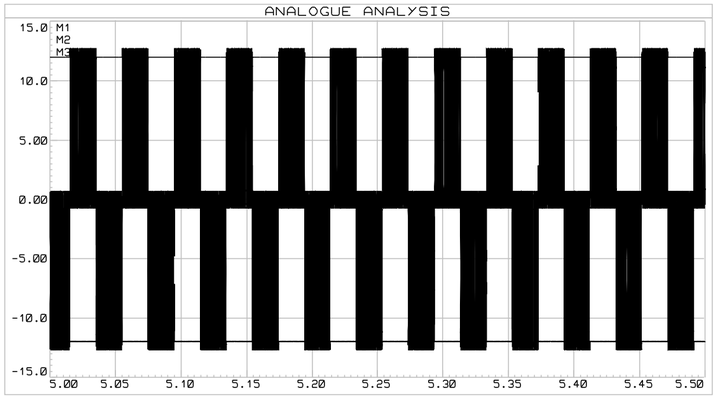
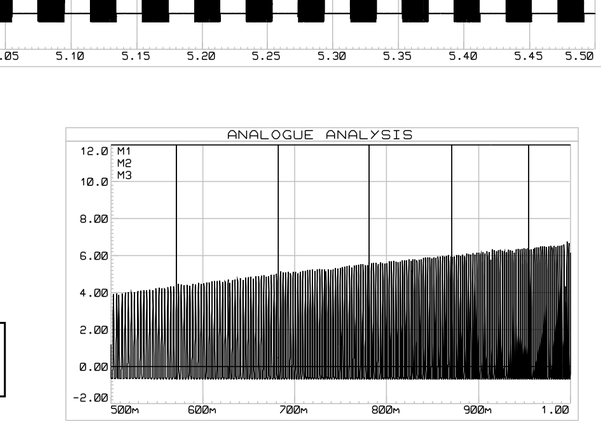

Vdd
VALUE=12
C1
47u
C2
100n
GND
R1
220
R2
220
R3
220
R4
220
R6
220
R7
220
R9
220
Q1
BC847B
Q2
IRF7425
Q3
BC847B
Q4
IRF6623
Q5
BC847B
Q6
IRF6623
Q7
IRF6623
Q8
IRF7425
Q9
IRF7425
UH
UL
VH
VL
WH
WL
M1
M2
M3


ANALOGUE ANALYSIS
VL
WL
UL
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
500m
0.00
-500m
5.000
5.020
5.040
5.060
5.080
5.100


U5
ATMEGA640
PROGRAM=List\BLDC_mega640_trail3.HEX
PL7
PL6
PL5/OC5C
PL4/OC5B
PL3/OC5A
PL2/T5
PL1/ICP5
PL0/ICP4
PK7/ADC15/PCINT23
PK6/ADC14/PCINT22
PK5/ADC13/PCINT21
PK4/ADC12/PCINT20
PK3/ADC11/PCINT19
PK2/ADC10/PCINT18
PK1/ADC9/PCINT17
PK0/ADC8/PCINT16
PJ7
PJ6/PCINT15
PJ5/PCINT14
PJ4/PCINT13
PJ3/PCINT12
PJ2/XCK3/PCINT11
PJ1/TXD3/PCINT10
PJ0/RXD3/PCINT9
PH7/T4
PH6/OC2B
PH5/OC4C
PH4/OC4B
PH3/OC4A
PH2/XCK2
PH1/TXD2
PH0/RXD2
PG5/OC0B
PG4/TOSC1
PG3/TOSC2
PG2/ALE
PG1/RD
PG0/WR
PF7/ADC7/TDI
PF6/ADC6/TDO
PF5/ADC5/TMS
PF4/ADC4/TCK
PF3/ADC3
PF2/ADC2
PF1/ADC1
PF0/ADC0
AVCC
AREF
PE7/ICP3/CLKO/INT7
PE6/T3/INT6
PE5/OC3C/INT5
PE4/OC3B/INT4
PE3/OC3A/AIN1
PE2/XCK0/AIN0
PE1/TXD0/PDO
PE0/RXD0/PCINT8/PDI
PD7/T0
PD6/T1
PD5/XCK1
PD4/ICP1
PD3/TXD1/INT3
PD2/RXD1/INT2
PD1/SDA/INT1
PD0/SCL/INT0
PC7/A15
PC6/A14
PC5/A13
PC4/A12
PC3/A11
PC2/A10
PC1/A9
PC0/A8
PB7/OC0A/OC1C/PCINT7
PB6/OC1B/PCINT6
PB5/OC1A/PCINT5
PB4/OC2A/PCINT4
PB3/MISO/PCINT3
PB2/MOSI/PCINT2
PB1/SCK/PCINT1
PB0/SS/PCINT0
PA7/AD7
PA6/AD6
PA5/AD5
PA4/AD4
PA3/AD3
PA2/AD2
PA1/AD1
PA0/AD0
XTAL2
XTAL1
RESET
WH
VH
WL
VL
UL
UH
H3
H2
H1
P1
P2
P3


ANALOGUE ANALYSIS
M1
M2
M3
15.0
10.0
5.00
0.00
-5.00
-10.0
-15.0
5.00
5.05
5.10
5.15
5.20
5.25
5.30
5.35
5.40
5.45
5.50


U5_VCC
R16
10K
R17
10K
R18
10K
H1
H2
H3
C3
22pF
C4
22pF
X1
CRYSTAL
GND
R13
330
R14
330
R15
330
M1
IM1
RECORD=IM1
M1
M2
M3
+88.8
MOTOR-BLDCM
+88.8
Volts

ANALOGUE ANALYSIS
M1
M2
M3
12.0
10.0
8.00
6.00
4.00
2.00
0.00
-2.00
500m
600m
700m
800m
900m
1.00

ANALOGUE ANALYSIS
IM1
4.00
3.00
2.00
1.00
0.00
-1.00
-2.00
-3.00
0.00
2.00
4.00
6.00
8.00
10.0