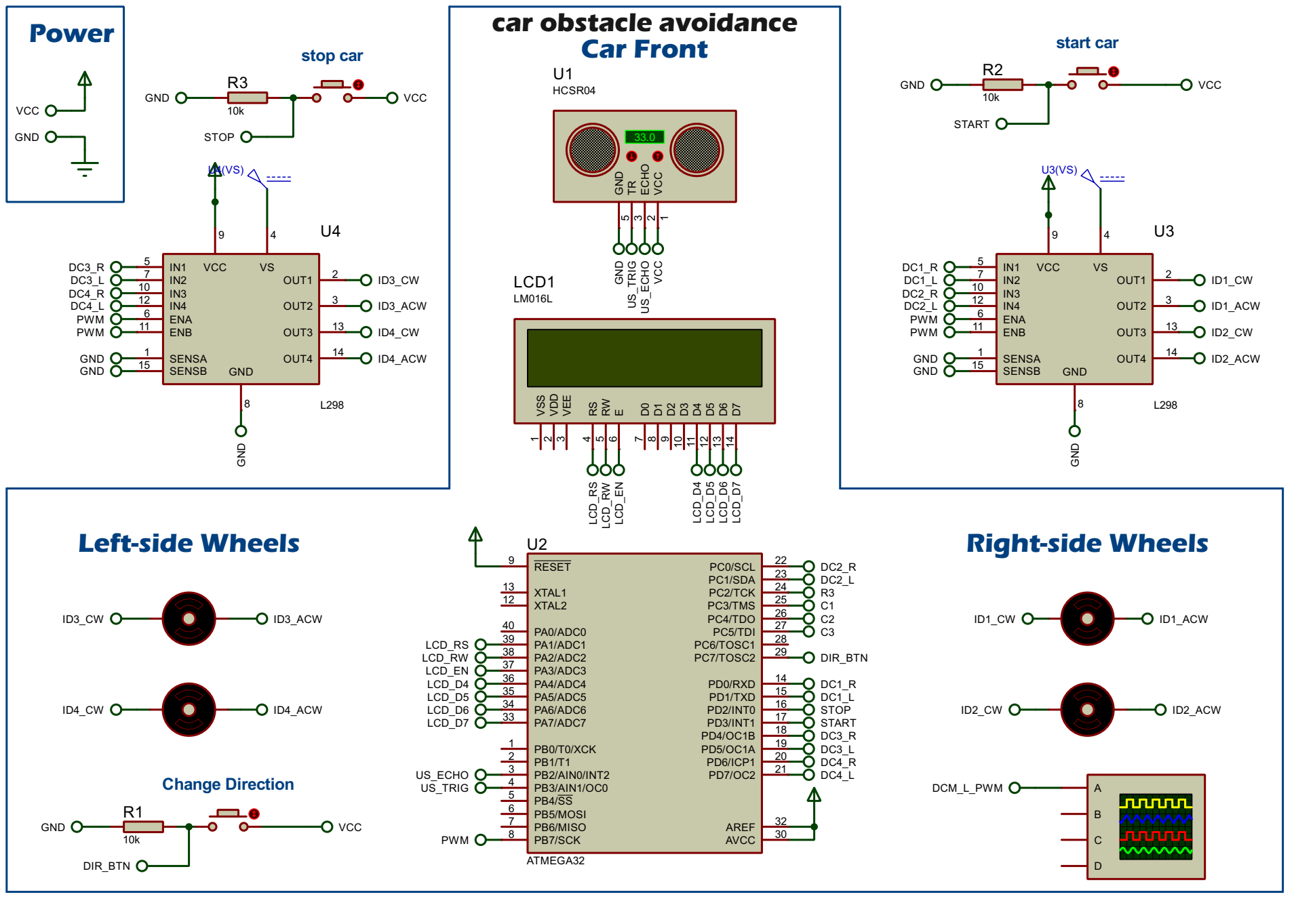
Power
VCC
GND
stop car
R3
10k
GND
VCC
STOP
U4(VS)
U4
9
4
DC3_R
DC3_L
DC4_R
DC4_L
PWM
PWM
IN1
IN2
IN3
IN4
ENA
ENB
VCC
VS
OUT1
OUT2
OUT3
OUT4
ID3_CW
ID3_ACW
ID4_CW
ID4_ACW
GND
GND
SENSA
SENSB
GND
L298
car obstacle avoidance
Car Front
U1
HCSR04
33.0
GND
TR
ECHO
VCC
GND
US_TRIG
US_ECHO
VCC
LCD1
LM016L
VSS
VDD
VEE
RS
RW
E
D0
D1
D2
D3
D4
D5
D6
D7
LCD_RS
LCD_RW
LCD_EN
LCD_D4
LCD_D5
LCD_D6
LCD_D7
start car
R2
10k
GND
VCC
START
U3(VS)
U3
DC1_R
DC1_L
DC2_R
DC2_L
ID1_CW
ID1_ACW
ID2_CW
ID2_ACW
L298
Left-side Wheels
ID3_CW
ID3_ACW
ID4_CW
ID4_ACW
Change Direction
R1
10k
GND
VCC
DIR_BTN
U2
RESET
XTAL1
XTAL2
PA0/ADC0
PA1/ADC1
PA2/ADC2
PA3/ADC3
PA4/ADC4
PA5/ADC5
PA6/ADC6
PA7/ADC7
PB0/T0/XCK
PB1/T1
PB2/AIN0/INT2
PB3/AIN1/OC0
PB4/SS
PB5/MOSI
PB6/MISO
PB7/SCK
PC0/SCL
PC1/SDA
PC2/TCK
PC3/TMS
PC4/TDO
PC5/TDI
PC6/TOSC1
PC7/TOSC2
PD0/RXD
PD1/TXD
PD2/INT0
PD3/INT1
PD4/OC1B
PD5/OC1A
PD6/ICP1
PD7/OC2
AREF
AVCC
DC2_R
DC2_L
R3
C1
C2
C3
DIR_BTN
DC1_R
DC1_L
STOP
START
DC3_R
DC3_L
DC4_R
DC4_L
US_ECHO
US_TRIG
PWM
ATMEGA32
Right-side Wheels
ID1_CW
ID1_ACW
ID2_CW
ID2_ACW
DCM_L_PWM
A
B
C
D