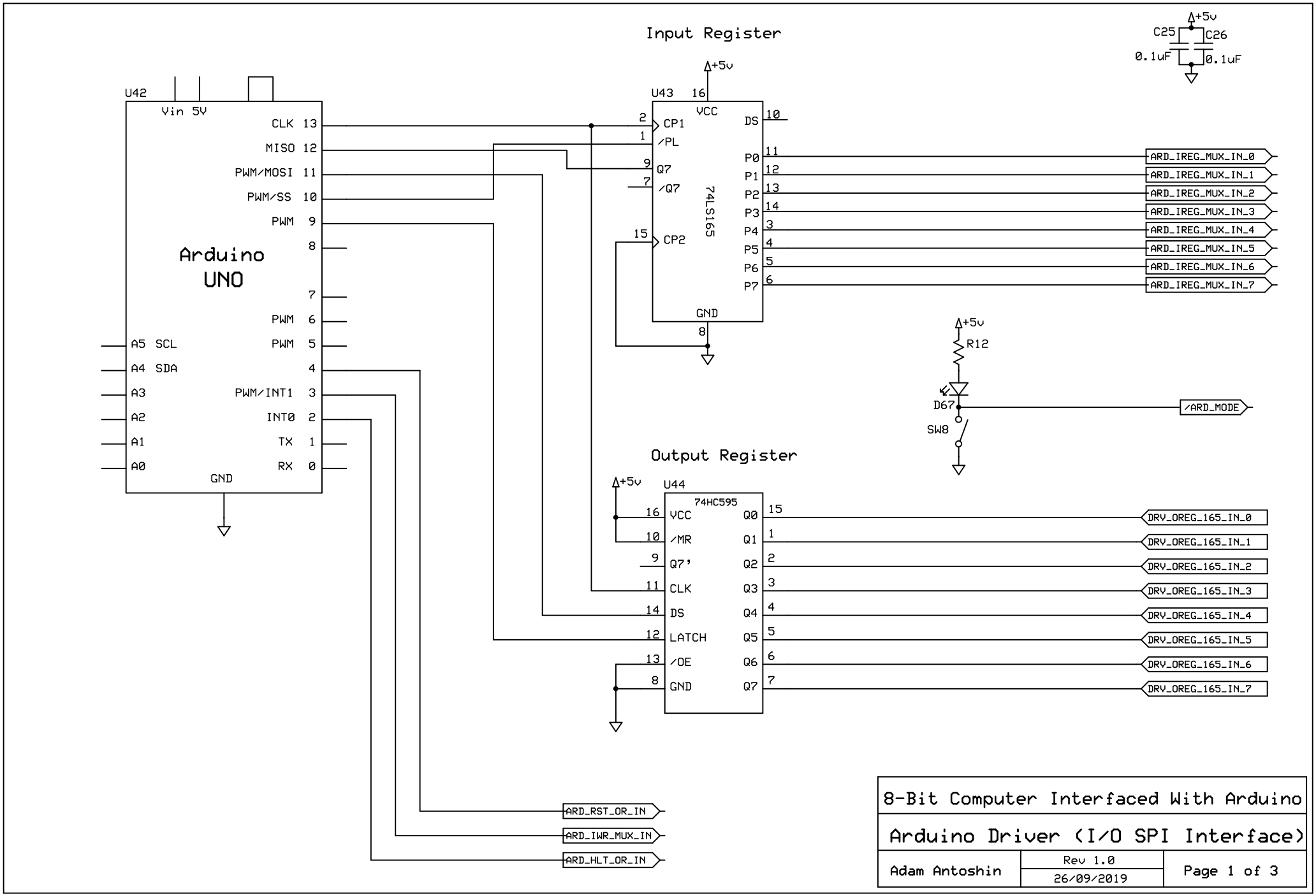
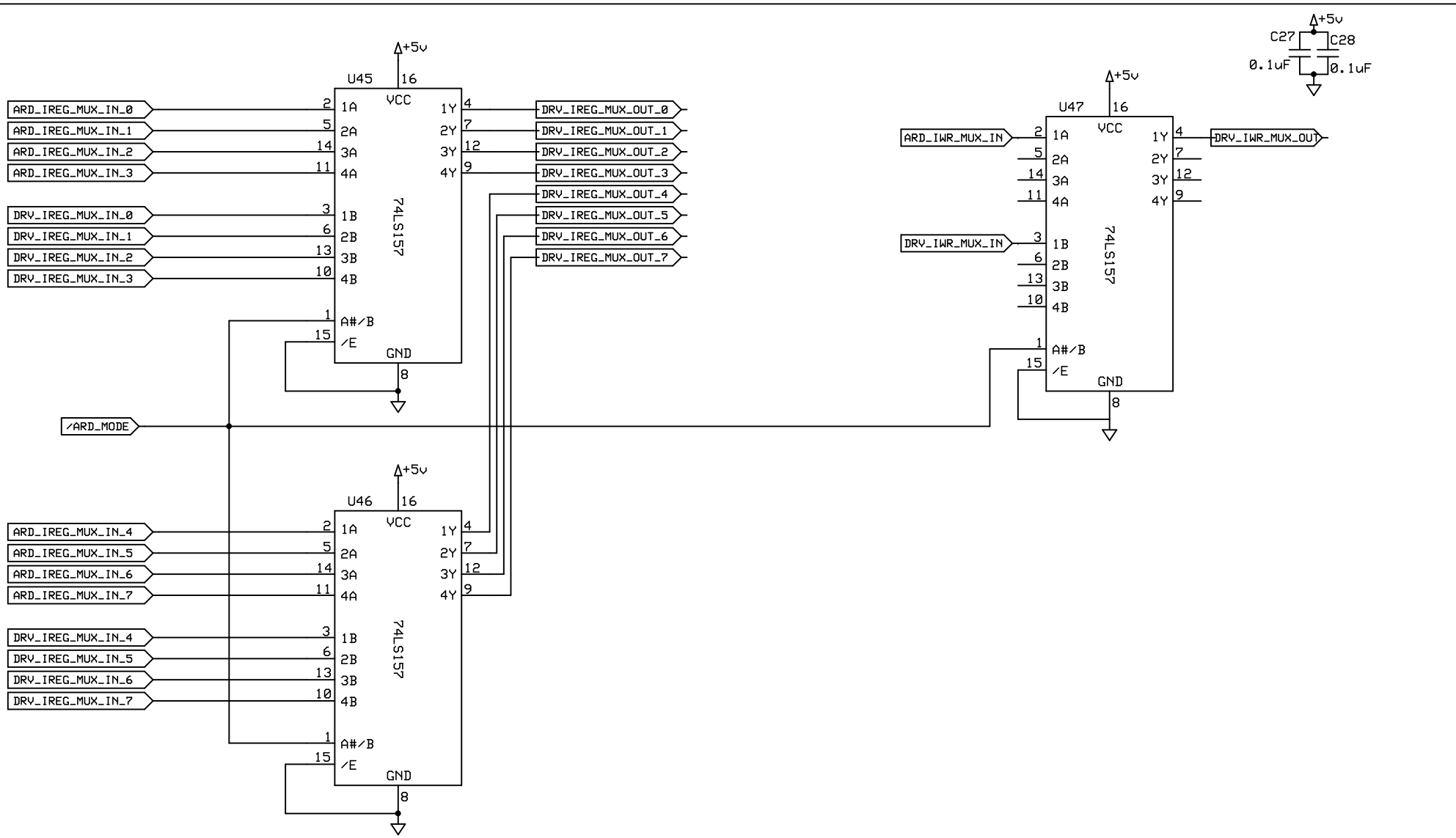
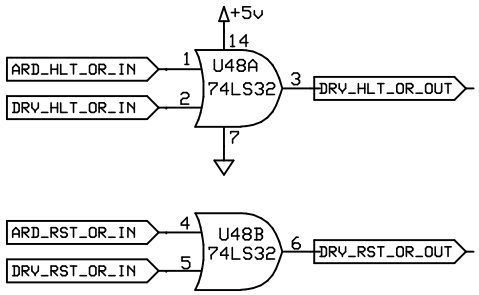

Input Register
Output Register
U42
Vin 5V
Arduino
UNO
CLK 13
MISO 12
PWM/MOSI 11
PWM/SS 10
PWM 9
8
7
PWM 6
PWM 5
A5 SCL
A4 SDA
4
A3
PWM/INT1 3
A2
INT0 2
A1
TX 1
A0
RX 0
GND
U43
74LS165
VCC
CP1
/PL
Q7
/Q7
CP2
DS
P0
P1
P2
P3
P4
P5
P6
P7
GND
+5v
C25
C26
0.1uF
0.1uF
R12
D67
SW8
/ARD_MODE
U44
74HC595
VCC
/MR
Q7'
CLK
DS
LATCH
/OE
GND
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
ARD_IREG_MUX_IN_0
ARD_IREG_MUX_IN_1
ARD_IREG_MUX_IN_2
ARD_IREG_MUX_IN_3
ARD_IREG_MUX_IN_4
ARD_IREG_MUX_IN_5
ARD_IREG_MUX_IN_6
ARD_IREG_MUX_IN_7
DRV_OREG_165_IN_0
DRV_OREG_165_IN_1
DRV_OREG_165_IN_2
DRV_OREG_165_IN_3
DRV_OREG_165_IN_4
DRV_OREG_165_IN_5
DRV_OREG_165_IN_6
DRV_OREG_165_IN_7
ARD_RST_OR_IN
ARD_IWR_MUX_IN
ARD_HLT_OR_IN
8-Bit Computer Interfaced With Arduino
Arduino Driver (I/O SPI Interface)
Adam Antoshin
Rev 1.0
26/09/2019
Page 1 of 3


+5v
C27
C28
0.1uF
0.1uF
U45
U46
U47
VCC
GND
74LS157
ARD_IREG_MUX_IN_0
ARD_IREG_MUX_IN_1
ARD_IREG_MUX_IN_2
ARD_IREG_MUX_IN_3
DRV_IREG_MUX_IN_0
DRV_IREG_MUX_IN_1
DRV_IREG_MUX_IN_2
DRV_IREG_MUX_IN_3
ARD_IREG_MUX_IN_4
ARD_IREG_MUX_IN_5
ARD_IREG_MUX_IN_6
ARD_IREG_MUX_IN_7
DRV_IREG_MUX_IN_4
DRV_IREG_MUX_IN_5
DRV_IREG_MUX_IN_6
DRV_IREG_MUX_IN_7
DRV_IREG_MUX_OUT_0
DRV_IREG_MUX_OUT_1
DRV_IREG_MUX_OUT_2
DRV_IREG_MUX_OUT_3
DRV_IREG_MUX_OUT_4
DRV_IREG_MUX_OUT_5
DRV_IREG_MUX_OUT_6
DRV_IREG_MUX_OUT_7
ARD_IWR_MUX_IN
DRV_IWR_MUX_IN
DRV_IWR_MUX_OUT
/ARD_MODE
1A
2A
3A
4A
1B
2B
3B
4B
A#/B
/E
1Y
2Y
3Y
4Y
8-Bit Computer Interfaced With Arduino
Arduino Driver (MUX Unit)
Adam Antoshin
Rev 1.0
27/09/2019
Page 2 of 3



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Arduino Driver (MUX Unit)		
Adam Antoshin	Rev 1.0 27/09/2019	Page 3 of 3