

Part List

Main Controller

Source Data From:

MainController.SchDoc

Project:

PrintingProjectAllDocs.PrjPCB

Variant:

U of U Computer Engineering

Report Date:	8/28/2012	1:47:04 PM
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Designator	Value	Comment	Vendor	Description	Quant	Price	Total Parts Price
R1, R2, R3, R4, R5	1K	Res1	Taydaelectronics	Resistor	5	0.01	\$0.05
D1, D2, D3, D4, D5, D6, D7	1N4001	1N4001	Taydaelectronics	1.0 Ampere General Purpose Rectifier, 1 Amp General Purpose Rectifier	7	0.01	\$0.07
C5, C6, C7, C8, C9	1uF	Cap	Taydaelectronics	Capacitor	5	0.03	\$0.15
Q1, Q2, Q3, Q4, Q5	2N3904	2N3904	Taydaelectronics	NPN General Purpose Amplifier	5	0.01	\$0.05
C2, C4	4.7uF	Cap	Taydaelectronics	Capacitor	2	0.03	\$0.06
C1, C3	470uF	Cap	Taydaelectronics	Capacitor	2	0.03	\$0.06
J1, J2, J3, J4, J5	D Connector 9	D Connector 9	Taydaelectronics	Receptacle Assembly, 9 Position, Right Angle	5	0.48	\$2.40
P3, P9, P12	Header 2	Header 2	Taydaelectronics	Header, 2-Pin	3	0.02	\$0.06
P11	Header 3	Header 3	Taydaelectronics	Header, 3-Pin	1	0.03	\$0.03
P1	Header 4	Header 4	Taydaelectronics	Header, 4-Pin	1	0.04	\$0.04
P2, P5, P8, P14, P16, P17, P18, P19	Header 5	Header 5	Taydaelectronics	Header, 5-Pin	8	0.05	\$0.40
P10	Header 6	Garage_HVAC	Taydaelectronics	Header, 6-Pin	1	0.06	\$0.06
P4	Header 6	Header 6	Taydaelectronics	Header, 6-Pin	1	0.06	\$0.06
P6	Header 7	Header 7	Taydaelectronics	Header, 7-Pin	1	0.07	\$0.07
P13, P15	Header 9	TempSenseBoard1	Taydaelectronics	Header, 9-Pin	2	0.09	\$0.18
VR2	L7805CP	L7805CP	Taydaelectronics	Positive Voltage Regulator	1	0.24	\$0.24
VR1	L7812CP	L7812CP	Taydaelectronics	Positive Voltage Regulator	1	0.24	\$0.24
P7	Plug	Spare	Taydaelectronics	Plug	1	0.00	\$0.00
U3	SN74HC154NT	SN74HC154NT	Digi-Key	4-Line to 16-Line Decoder / Demultiplexer	1	3.70	\$3.70
U1, U2, U5	SN7416N	SN7416N	Taydaelectronics	Hex Inverter Buffer / Driver with High-Voltage Outputs	3	0.18	\$0.54
U4	Teensy2.0++	Teensy2.0++	Taydaelectronics	The teensy 2.0 from www.PJRC.com	1	24.0	\$24.00
						Total	\$32.46

Part List

Bi-Polar Motor driver BOM 2 For Schematic Document [MotorController.SchDoc]

Source Data From:

MotorController.SchDoc

Project:

PrintingProjectAllDocs.PrjPCB

Variant:

U of U Computer Engineering

Report Date: 8/28/2012 1:48:40 PM

Print Date: 28-Aug-12 1:48:53 PM

Designator	Value	Comment	Vendor	Description	Quant	Price	Total Parts Price
C1	1uF	Cap	Taydaelectronics	Capacitor	1	0.03	\$0.03
C2	4.7uF	Cap	Taydaelectronics	Capacitor	1	0.03	\$0.03
D1, D2, D3, D4, D5, D6, D7, D8	Diode 1N5408	Diode 1N5408	Taydaelectronics	3 Amp Medium Power Silicon Rectifier Diode	8	0.03	\$0.24
D9	LED0	LED0	Taydaelectronics	Typical INFRARED GaAs LED	1	0.04	\$0.04
D10	Diode 1N4148	Diode 1N4148	Taydaelectronics	High Conductance Fast Diode	1	0.01	\$0.01
P1	Header 6	Header 6	Taydaelectronics	Header, 6-Pin	1	0.06	\$0.06
P2	Header 4	Header 4	Taydaelectronics	Header, 4-Pin	1	0.04	\$0.04
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10	2N3904	2N3904	Taydaelectronics	NPN General Purpose Amplifier	10	0.01	\$0.10
R1, R2, R3, R5	1K	Res1	Taydaelectronics	Resistor	4	0.01	\$0.04
R4, R6, R7, R8, R9, R10, R17, R18, R19, R20, R22	10k	Res1	Taydaelectronics	Resistor	11	0.01	\$0.11
R11, R13, R14, R15, R21	3.3k	Res1	Taydaelectronics	Resistor	5	0.01	\$0.05
R12, R16	470	Res1	Taydaelectronics	Resistor	2	0.01	\$0.02
U1, U2, U3, U4	TIP126	TIP126	Taydaelectronics	TIP126 -PNP	4	0.35	\$1.40
U5, U6, U7, U8	TIP120	TIP120	Taydaelectronics	NPN 60V -5A TO-220	4	0.26	\$1.04
U9	LM555CN	LM555CN	Taydaelectronics	Timer	1	0.14	\$0.14
U10	MC74HC194N	MC74HC194N	Digi-Key	4-Bit Bidirectional Universal Shift Register	1	0.68	\$0.68
U11	SN754410NE	SN754410NE	U of U	Quadruple Half-H Driver	1	0.00	\$0.00
						Total	\$4.03

Damper Section

DamperSection.SchDoc

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U of U Computer Engineering

Source Data From:

Project:**Variant:**

Report Date: 8/28/2012 1:49:22 PM

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Designator	Value	Comment	Vendor	Description	Quant	Price	Total Parts Price
D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D15, D16, D17, D18	1N4001	1N4001	Taydaelectronics	1.0 Ampere General Purpose Rectifier	16	0.01	\$0.16
D13, D14, D19, D20	LED0	LED_White	Taydaelectronics	Typical INFRARED GaAs LED	4	0.04	\$0.16
J1, J2, J3, J4	D Connector 9	D Connector 9	Taydaelectronics	Receptacle Assembly, 9 Position, Right Angle	4	0.48	\$1.92
K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16	SPDT	SPDT	Taydaelectronics		16	0.64	\$10.24
P1	Header 4	Header 4	Taydaelectronics	Header, 4-Pin	1	0.04	\$0.04
P2	Header 2	Header 2	Taydaelectronics	Header, 2-Pin	1	0.02	\$0.02
P3	Header 7	Header 7	Taydaelectronics	Header, 7-Pin	1	0.07	\$0.07
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20	2N3904	2N3904	Taydaelectronics	NPN General Purpose Amplifier	20	0.01	\$0.20
R1, R2, R3, R4, R7, R8, R9, R10, R11, R12, R13, R16, R17, R18, R21, R22, R23, R25, R26, R30, R31, R32, R33, R35, R36, R37	10k	Res1	Taydaelectronics	Resistor	26	0.01	\$0.26
R5, R6, R14, R15, R24, R29, R34, R39	1M	Res1	Taydaelectronics	Resistor	8	0.01	\$0.08
R19, R20, R27, R28	120	Res1	Taydaelectronics	Resistor	4	0.01	\$0.04
R38, R40	1K	Res1	Taydaelectronics	Resistor	2	0.01	\$0.02
						Total	\$13.21

Part List

Sprinkler Control BOM 2 For Schematic Document [SprinklerBoard.SchDoc]

Source Data From:

SprinklerBoard.SchDoc

Project:

PrintingProjectAllDocs.PrjPCB

Variant:

U of U Computer Engineering

Report Date: 8/28/2012 1:50:16 PM

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Designator	Value	Comment	Vendor	Description	Quant	Price	Total Parts Price
D1, D2, D3, D4, D5, D6	1N4001	1N4001	Taydaelectronics	1.0 Ampere General Purpose Rectifier	6	0.01	\$0.06
D7, D8, D9, D10, D11, D12	LED0	LED_White	Taydaelectronics	Typical INFRARED GaAs LED	6	0.04	\$0.24
J1	D Connector 9	D Connector 9	Taydaelectronics	Receptacle Assembly, 9 Position, Right Angle	1	0.48	\$0.48
K1, K2, K3, K4, K5, K6	SPDT	SPDT	Taydaelectronics		6	0.64	\$3.84
P1	Header 7	Header 7	Taydaelectronics	Header, 7-Pin	1	0.07	\$0.07
Q1, Q2, Q3, Q4, Q5, Q6	2N3904	2N3904	Taydaelectronics	NPN General Purpose Amplifier	6	0.01	\$0.06
R1, R2, R3, R4, R5, R6, R7, R8	1K	Res1	Taydaelectronics	Resistor	8	0.01	\$0.08
R9, R10, R11, R12, R13, R14	120	Res1	Taydaelectronics	Resistor	6	0.01	\$0.06
U1	SN7416N	SN7416N	Taydaelectronics	Hex Inverter Buffer / Driver with High-Voltage Outputs	1	0.18	\$0.18
U2	74AC138B	74AC138B	Taydaelectronics	3-to-8 Line Decoder Inverting	1	0.25	\$0.25
						Total	\$5.32

Part List

Temperature Sensor Control BOM 2 For Schematic Document [TemperatureSensorBloc

Source Data From:	TemperatureSensorBlock.SchDoc
Project:	PrintingProjectAllDocs.PrjPCB
Variant:	U of U Computer Engineering

Report Date: 8/28/2012 1:51:10 PM
Print Date: 28-Aug-12 1:51:18 PM

Designator	Value	Comment	Vendor	Description	Quant	Price	Total Parts Price
C1, C2, C4, C5	100pF	Cap	Taydaelectronics	Capacitor	4	0.03	\$0.12
C3	4.7uF	Cap	Taydaelectronics	Capacitor	1	0.03	\$0.03
P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P28, P29, P30, P31, P32, P33	Header 2	Header 2	Taydaelectronics	Header, 2-Pin	32	0.02	\$0.64
P11	Header 12	Header 12	Taydaelectronics	Header, 12-Pin	1	0.12	\$0.12
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32	15k	Res1	Taydaelectronics	Resistor	32	0.01	\$0.32
U1, U2, U3, U4	CD4051BCN	CD4051BCN	Taydaelectronics	8-Channel Analog Multiplexer/Demultiplexer	4	0.23	\$0.92
						Total	\$2.15

Part List

Wireless Communication Controller BOM 2 For Schematic Document [Wi

Source Data From:	<u>WirelessCommunications.SchDoc</u>
Project:	<u>PrintingProjectAllDocs.PrjPCB</u>
Variant:	<u>U of U Computer Engineering</u>

Report Date:	8/28/2012	1:52:04 PM
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Designator	Value	Comment	Vendor	Description	Quant	Price	Total Parts Price
C1	0.1uF	Cap	Taydaelectronics	Capacitor	1	0.03	\$0.03
C2	1.0uF	Cap	Taydaelectronics	Capacitor	1	0.03	\$0.03
P1	Header 5	Header 5	Taydaelectronics	Header, 5-Pin	1	0.05	\$0.05
P2, P7, P8, P9	Header 2	Header 2	Taydaelectronics	Header, 2-Pin	4	0.02	\$0.08
P3, P4, P5	Header 10	Header 10	Taydaelectronics	Header, 10-Pin	3	0.10	\$0.30
P6	Header 7	Header 7	Taydaelectronics	Header, 7-Pin	1	0.07	\$0.07
R1	10k	Res1	Taydaelectronics	Resistor	1	0.01	\$0.01
T1	RFM12 transceiver	RFM12 transceiver	futurlec	w w w .futurlec.com 433 MHz transceiver	1	7.90	\$7.90
U1	Teensy2.0	Teensy	PJRC	The teensy 2.0 from w w w .PJRC.com, chang clock to 8MHz	1	16.00	\$16.00
						Total	\$24.47

Microphone Mixer

MicMixer.SchDoc

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Designator	Value	Comment	Vendor	Description	Quant	Price	Total Parts Price
C1, C2, C3, C4, C5, C6, C7, C8, C9, C10	4.7uF, 10uF, 22uF	Cap	Taydaelectronics	Capacitor	10	0.03	\$0.30
MK1, MK2, MK3, MK4, MK5, MK6, MK7, MK8, MK9, MK10, MK11, MK12, MK13, MK14, MK15, MK16	Mic1	Mic1	Taydaelectronics	Microphone	16	0.25	\$4.00
P1	Header 9	Header 9	Taydaelectronics	Header, 9-Pin	1	0.09	\$0.09
P2, P3, P4, P5, P6, P7, P8, P9	Header 2	Header 2	Taydaelectronics	Header, 2-Pin	8	0.02	\$0.16
P10, P11	Header 3	Header 3	Taydaelectronics	Header, 3-Pin	2	0.03	\$0.06
Q1, Q2	BC548B	BC548B	Taydaelectronics	NPN General Purpose Amplifier	2	0.01	\$0.02
Q3, Q4	2N3904	2N3904	Taydaelectronics	NPN General Purpose Amplifier	2	0.01	\$0.02
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14	1K, 5.6K, 10k, 220K	Res1	Taydaelectronics	Resistor	14	0.01	\$0.14
U1, U2, U3, U4	CD4051BCN	CD4051BCN	Taydaelectronics	8-Channel Analog Multiplexer/Demultiplexer	4	0.23	\$0.92
						Total	\$5.71

Part List

Speaker Mixer

Source Data From:

SpeakerMixer.SchDoc

Project:

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Designator	Value	Comment	Vendor	Description	Quant	Price	Total Parts Price

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