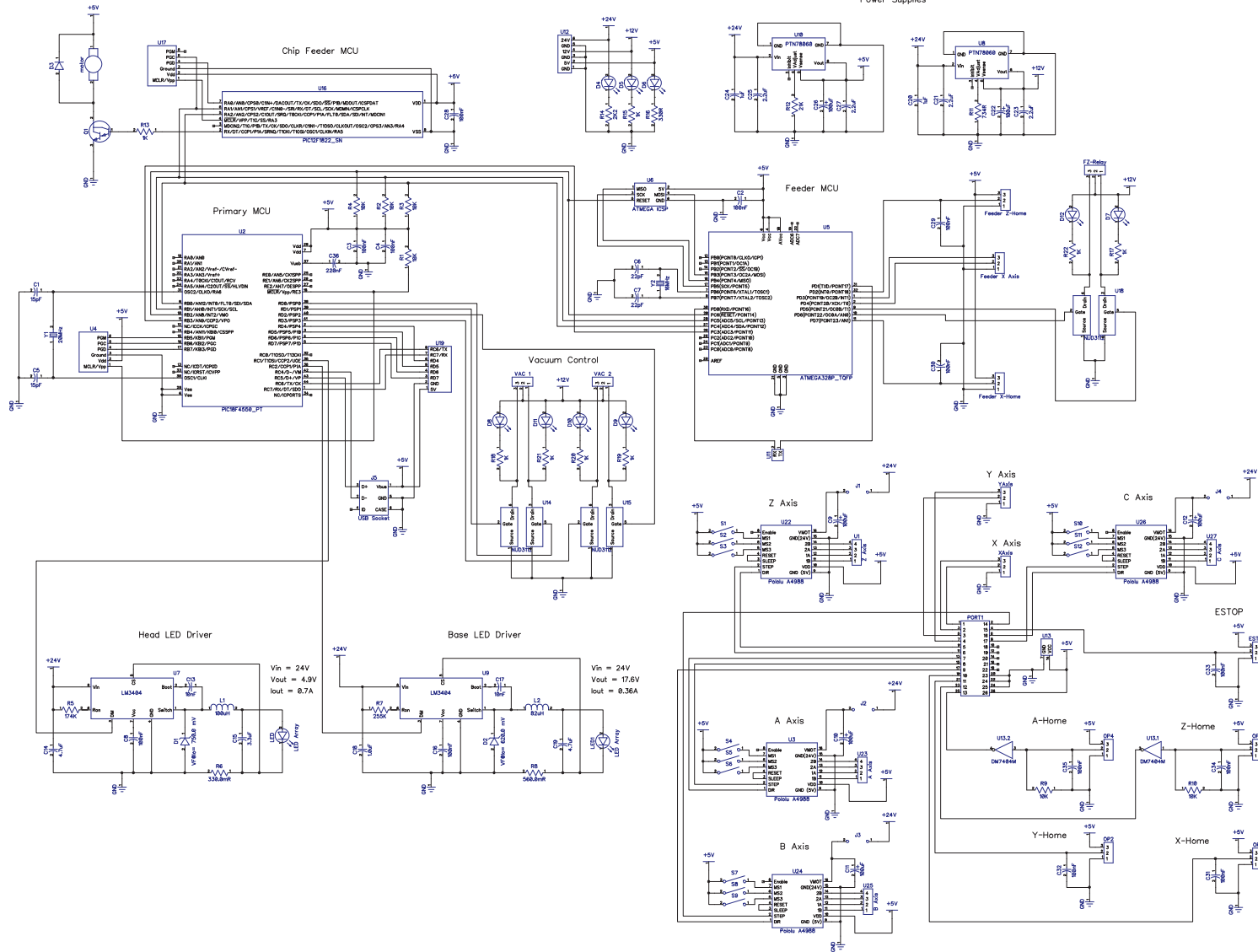


Pick and Place Control System 1.1



RefDes	Value	Name	Quantity
C1, C5	15µF	CAP_0805	2
C2, C3, C4, C6, C16, C28, C29, C30, C31, C32, C33, C34, C35	100nF	CAP_0603	13
C6, C7	22µF	CAP_0805	2
C8, C10, C11, C12, C22, C26	100µF	CAPAE-6.6x6.6x7.6	6
C13, C17	10nF	CAP_0603	2
C14	4.7µF	CAP_1206	1
C15	3.3µF	CAP_1206	1
C18	1.0µF	CAP_1206	1
C19	4.7µF	CAP_1210	1
C20, C24	1µF	CAP_1206	2
C21, C23, C25, C27	2.2µF	CAP_1206	4
C36	220nF	CAP_0805	1
CON1	Feeder Z-Home	Conn3	1
CON2	Feeder X Axis	Conn3	1
CON3	FZ-Relay	Conn3	1
CON4	Feeder X-Home	Conn3	1
CON5	VAC 1	Conn3	1
CON6	VAC 2	Conn3	1
D1	VF00=750.0 mV	MBR5100T3G	1
D2	VF00=620.0 mV	BO540W-7-F	1
D3		DIODE	1
D4, D5, D6, D7, D8, D9, D10, D11, D12		LED_0805	9
ESTOP, XAxis, YAxis		Conn3	3
J1, J2, J3, J4		JUMPER	4
J5	USB Socket	10B1504-1	1
L1	100µH	IND_1206	1
L2	82µH	IND_1206	1
LED, LED1	LED Array	LED	2
motor		MOTORAC	1
OP1	X-Home	Conn3	1
OP2	Y-Home	Conn3	1
OP3	Z-Home	Conn3	1
OP4	C-Home	Conn3	1
PORT1		ID Port1	1
Q1	FZT600	NPN/DARL	1
R1, R2, R3, R4, R9, R10	10K	RES_0805	6
R5	174K	RES_0805	1
R6	330.0mR	RES_0603	1
R7	255K	RES_0805	1
R8	500.0mR	RES_0603	1
R11	734R	RES_0805	1
R12	21K	RES_0805	1
R13, R15, R17, R18, R19, R20, R21, R22	1K	RES_0805	8
R14	2K2	RES_0805	1
R16	330R	RES_0805	1
S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12		SWITCHSPSTNO	12
U1	Z Axis	Conn4	1
U2	PIC18F4550-PT		1
U3	A Axis	Pololu A4988	1
U4	PIC18F4550-ICSP		1
U5		ATMEGA328P-TQFP	1
U6		ATMEGA ICSP	1
U7, U9		LM3484MA	2
U8, U10		PTN78060	2
U11		Arduino TX/RX	1
U12		Power Connector	1
U13		DM7404M	1
U14, U15, U16		NU3112	3
U18		PIC12F1822-SN	1
U17		PIC12F1822-ICSP	1
U19		Pickler Controller Port Expander	1
U22	Z Axis	Pololu A4988	1
U23	A Axis	Conn4	1
U24	B Axis	Pololu A4988	1
U25	B Axis	Conn4	1
U26	C Axis	Pololu A4988	1
U27	C Axis	Conn4	1
Y1	20MHz	HC495	1
Y2	10MHz	HC495	1
			134

Item	Quantity	Pick and Place Control System 1.0	Article No./Reference
Designed by	Checked by	Approved by - date	Date
		AD - 28/12/2013	28/12/2013
			Scale
			1:1
			Sheet
			1/1
			Revision
			0