

The diagram illustrates the pinout of the MEGA2560 Board, organized into several functional groups:

- Serial:** Includes pins for SPI (MISO, MOSI, SCK, RESET, SPI_L5V, SPI_GND) and I2C (SDA1, SCL1).
- INT:** Interrupt pins including INT5, INT2, INT1, and INT0.
- CAN:** CAN bus pins (CANRX, CANTX).
- ANALOG:** Analog pins (A0-A11) and AREF.
- Misc.:** Miscellaneous pins including RESET, IOREF, and RST1N.
- Power:** Power pins (VIN, 5V1-5V4, 3V3, GND1-GND6).
- GPIO:** General Purpose Input/Output pins (PA0-PA7, PC7-PC0, PB0-PB7).

Connections are shown for various components, including a 10uF capacitor (C1) connected to GND and AREF, and a 5V regulator connected to VIN and GND.

Diagram 1 (Left): Shows four LEDs (R1, R2, R3, R4) connected to a common ground (GND) through resistors (1K5). The LEDs are labeled with their respective colors: Yellow, Green, Yellow, and Green. The diagram is labeled PL_7, PL_6, PL_5, and PL_4.

Diagram 2 (Middle): Shows four LEDs (R5, R6, R7, R8) connected to a common ground (GND) through resistors (3K3). The LEDs are labeled with their respective colors: Red, Red, Red, and Red. The diagram is labeled PC_7, PC_6, PC_5, and PC_4.

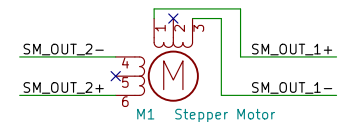
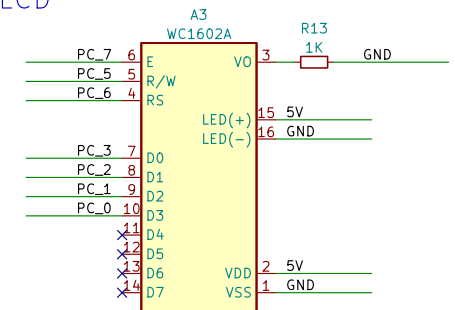
Diagram 3 (Right): Shows four LEDs (R9, R10, R11, R12) connected to a common ground (GND) through resistors (3K3). The LEDs are labeled with their respective colors: Red, Red, Red, and Red. The diagram is labeled PC_3, PC_2, PC_1, and PC_0.

J1		J3	
Stepper Motor		DC Motor	
PA_5	E1	PB_2	1A
PA_4	L1	PB_3	EA
PA_3	L2	PB_1	EB
PA_2	E2	PB_0	1B
PA_1	L3	DCM_PWM	PWM
PA_0	L4		CS
		P1	P1
		P2	P2
		P3	P3

The diagram shows two switches, SW1 and SW2, connected to interrupt pins. SW1 is connected to INT2 and SW2 is connected to INT5. Both switches have one terminal connected to the interrupt pin and the other terminal connected to GND.

L298 (Stepper Motor Driver)		A2	
PA_5	1	ENO	9 SM_OUT_1+
PA_4	2	L1	10 SM_OUT_1-
PA_3	3	L2	11 SM_OUT_2+
PA_2	4	M2+	12 SM_OUT_2-
PA_1	5	EN1	
PA_0	6	L3	
	7	L4	
12V		Mpwr+	13 5V_Reg
GND	8	Mpwr-	

A4 VNH2SP30 (DC Moto rDriver)			
PB_3	EN_A	OUT_A	OUT_A DCM_OUT_A
PB_1	EN_B	OUT_B	OUT_B DCM_OUT_B
PB_2	IN_A	FET	FET
PB_0	IN_B	BYPASS	BYPASS
DCM_PWM	PWM	Vin	6.3V
		GND	GND



Id: 1/1