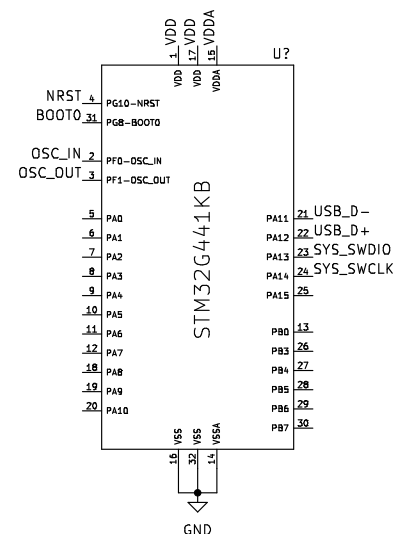


The diagram shows a precision current source circuit. A 5V supply is connected to the IN pin (pin 1) of the NCV8370. A 1uF capacitor is connected between the IN pin and GND. The EN pin (pin 3) is connected to GND. The OUT pin (pin 5) is connected to a resistor R1, which is then connected to a resistor R2, which is finally connected to GND. The output current is labeled I_{adj} . The formula for the output current is given as $V_{out} = V_{adj} * (1 + R1/R2) + I_{adj} * R1$.



The image contains two circuit diagrams, each showing the connection of a MAX14930 U2 component. Both diagrams include a +3.3V power supply, a GND connection, and 0.1uF capacitors.

Top Diagram:

- U2 MAX14930 Pin Connections:**
 - Pin 1 (VDDA) to +3.3V
 - Pin 2 (GNDA) to GND
 - Pin 3 (INA1) to Motor1_PWM
 - Pin 4 (INA2) to Motor1_DIR
 - Pin 5 (INA3) to Motor2_PWM
 - Pin 6 (INA4) to Motor2_DIR
 - Pin 7 (ENA) to GND
 - Pin 8 (GNDA) to GND
 - Pin 16 (VDDB) to +3.3V
 - Pin 15 (GNDB) to GND
 - Pin 14 (INB1) to Motor1_PWM_Isolated
 - Pin 13 (INB2) to Motor1_DIR_Isolated
 - Pin 12 (INB3) to Motor2_PWM_Isolated
 - Pin 11 (INB4) to Motor2_DIR_Isolated
 - Pin 10 (ENB) to GND
 - Pin 9 (GNDB) to GND

Bottom Diagram:

- U2 MAX14930 Pin Connections:**
 - Pin 1 (VDDA) to +3.3V
 - Pin 2 (GNDA) to GND
 - Pin 3 (INA1) to Motor3_PWM
 - Pin 4 (INA2) to Motor3_DIR
 - Pin 5 (INA3) to nFault
 - Pin 6 (INA4) to Thrower_PWM
 - Pin 7 (ENA) to GND
 - Pin 8 (GNDA) to GND
 - Pin 16 (VDDB) to +3.3V
 - Pin 15 (GNDB) to GND
 - Pin 14 (INB1) to Motor3_PWM_Isolated
 - Pin 13 (INB2) to Motor3_DIR_Isolated
 - Pin 12 (INB3) to nFault_Isolated
 - Pin 11 (INB4) to Thrower_PWM_Isolated
 - Pin 10 (ENB) to GND
 - Pin 9 (GNDB) to GND

U?
DRV8243

nFault	1	nFAULT	SDO	14
	2	IPROPI	SDI	13
	3	nSLEEP	SCLK	12
V+	4	VM	nSCS	11
	5	OUT2	PH/IN2	10 Motor1_DIR_Isolated
	6	GND	EN/IN1	9 Motor1_PWM_Isolated
GND	7	OUT1	DRVOFF	8

U?
DRV8243

nFault	1	nFAULT	SDO	14
	2	IPROPI	SDI	13
	3	nSLEEP	SCLK	12
V+	4	VM	nSCS	11
	5	OUT2	PH/IN2	10 Motor2_DIR_Isolated
	6	GND	EN/IN1	9 Motor2_PWM_Isolated
GND	7	OUT1	DRVOFF	8

U?
DRV8243

nFault	1	nFAULT	SDO	14
	2	IPROPI	SDI	13
	3	nSLEEP	SCLK	12
V+	4	VM	nSCS	11
	5	OUT2	PH/IN2	10 Motor3_DIR_Isolated
	6	GND	EN/IN1	9 Motor3_PWM_Isolated
GND	7	OUT1	DRVOFF	8