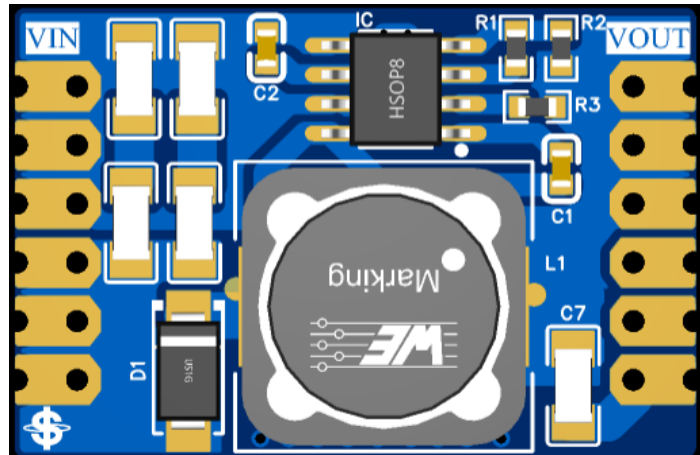
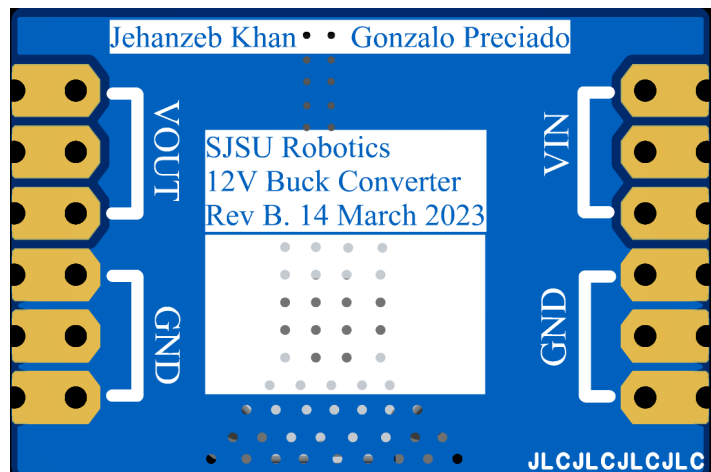




Application

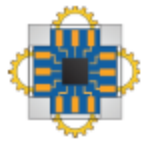


ST1S14 Features



Manufacturer	Series	Inductor value (μH)	Saturation current (A)
Würth Elektronik	WE-HCI 7040	1 to 4.7	20 to 7
	WE-HCI 7050	4.9 to 10	20 to 4.0
Coilcraft	XPL 7030	2.2 to 10	29 to 7.2

Table 1: Induction Selection



SJSU
Robotics

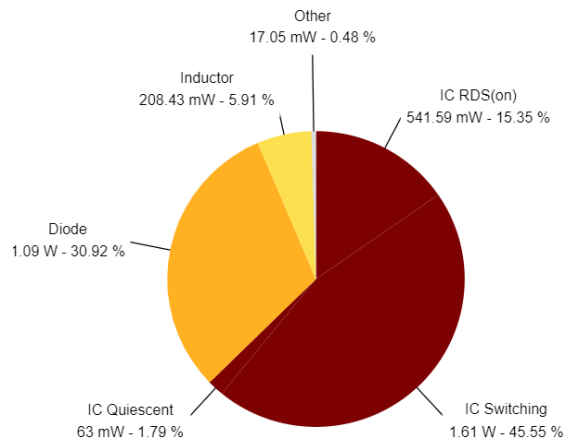


Figure 2: Power Loss Chart

$$G_{DIV}(s) = \frac{R_2}{R_1 + R_2} \cdot \frac{(1 + s \cdot R_1 \cdot C_{R1})}{\left(1 + s \cdot \frac{R_1 \cdot R_2}{R_1 + R_2} \cdot C_{R1}\right)}$$