Criteria 🔻	Full credit	Partial credit	No credit ▼
Part 1: complete	10 points	5 points	0 points
schematic of sensing circuitry. Include filtering, component values, header			
pin labels, overvoltage protection			
Part 1: write expressions for the ADC input voltages as functions of battery voltage and current	5 points	3 points	0 points
Part 1: explain and document test data proving that you can capture the battery voltage and current within the MSP430	15 points	7 points	0 points
Part 2: Description of testing, debugging, and evaluation procedure	15 points	8 points	0 points
Part 2: full schematic of Exp 3, including indication of which component is on each board and any twisted pair wiring	10 points	5 points	0 points
Part 2: at MPP, capture oscilloscope waveform of PV panel voltage and MSP430 duty cycle output, showing operation (P&O or other)	10 points	5 points	0 points
about MPP Part 2: Explain what	10 points	5 points	0 points
measurements and data were collected to validate that PV system operated at max power point		·	·
Part 2: Measured PV panel output power and input power. Calculated converter efficiency.	7 points	4 points	0 points
Unshaded conditions: is more power captured with or without the converter? Compare experimental data. Explain why.	9 points	4 points	0 points
With 4 cells shaded: does experimental system capture more power with or without converter? Give experimental data. Explain why. Suggest a way to improve this case.	9 points	5 points	0 points