

Sun Tracking Solar Panel Array For Arctic Applications
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Requirement Summary:

Module Name	High Level Requirement	Points
Power Unit	<ul style="list-style-type: none">This unit should supply power to the rest of the system at all times using the battery	5
Control Unit	<ul style="list-style-type: none">This unit should take an input from the temperature control unit via the temperature sensor and control the heater accordinglyThis unit should also calculate the sun's position and send the position to the movement unit.	20
Temperature Control Unit	<ul style="list-style-type: none">This unit should take the ambient temperature using the temperature sensor and send it to the control unitThis unit also heats the system when temperatures fall outside our allowable threshold	10
Movement unit	<ul style="list-style-type: none">This unit should accurately move the motors to the position sent to it by the microcontroller	15
	Total	50