

RV Point Assignment:

Module Name	High Level Requirements	Points Assigned
Flex-Resistor Op-Amp Subsystem	<ul style="list-style-type: none"><li>• Output voltages between 0.5V and 2.2V based on finger flexion</li></ul>	15
IMU Subsystem	<ul style="list-style-type: none"><li>• Needs to provide relevant orientation and acceleration data to control unit over I2C bus.</li></ul>	10
Control Subsystem	<ul style="list-style-type: none"><li>• Needs to configure IMU at startup</li><li>• Needs to be able to communicate with and receive data from both flex-resistor op-amp system</li><li>• Needs to run the control loop that declares a certain gesture</li></ul>	20
UART Interface	<ul style="list-style-type: none"><li>• Allow for display of recognized gesture on PC from microcontroller</li></ul>	5