Regulate Current Use Case Current BASIC COURSE: When the circuit indicates high Circuit Sensor Buck or Convert raw Apply current through the sensor, the Boost? input into Fourier system will convert the raw digital usable Transform input into a usable format. The format system will then compute a result using the Fourier Transform, and Unable to read input then compare this result with Buck **Boost** predefined values. The system will then 'buck' the circuit accordingly by outputting a digital signal. **ALTERNATIVE COURSE:** Sensor input cannot be read: When the sensor fails to send an input for a designated time interval, Shutdown the system will assume a critical interval hardware failure has occurred and Output Output passed? shut down the circuit. **Buck Signal Boost** Signal **Boost mode:** The system will then compute a result using the Fourier Transform, and then compare this result with predefined values. The system will then 'boost' the circuit accordingly by outputting a digital Shutdown Transistor signal.