**Functional Decomposition**

1. Battery System
   1. Battery Management System
      1. Checks Battery Charge
      2. Control Output of Power
      3. Monitor Current Flow
      4. Monitor Voltage levels
      5. Monitor Temperature
   2. Battery Containment
      1. Configure Battery Layout
      2. Integrated into Vehicle Frame
      3. Control Temperature
      4. Support Battery Load
      5. Withstand External Forces

Figure 1. Functional Decomposition.