**Functional hierarchy of the autonomous vehicle**

* **First level functional architecture**
* **Battery module architecture**
* **Communication module architecture**
* **Camera module architecture**
* **Motor module architecture**
* **Vehicle dynamics module architecture**
* **Processor module architecture**
  + **First level architecture**
* **Processor module architecture**
  + **Processor, subsystem, camera and image processor, LED activation and control and weeder arm architecture**
* **Processor module architecture**
  + **Pesticide nozzle control and vehicle dynamics control**
* **Processor module architecture**
  + **Cognitive unit**
* **Processor module architecture**
  + **Fleet activation and fault diagnostics**