Orb Level Software Architecture

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XBEE

GPS

aggregator

XBEE   XBEE & GPS

Dispatcher Executable
(Aggregator I/O,
Full Parsing,
Calculation of Physical Values)

Shared
Memory

Gronkulator Executable
(Estimation,
Feedback Control,
Remote/Autonomous Mode,
Motor I/O)

SPU

Light and Sound

Motor Controller

IMU