

## Computer Control Modules

### Core Rover Software

#### main.py

- module descriptions and interface
- start processes and threads

<<DATA>>

#### StateManager.py

- maintain software state memory
- data reirection

<<MODULE>>

#### ProtocolBufferServer.py

- Serialization and Deserialization of data
- Logging and connection to base client

### Rover Control

<<MODULE>>

#### DriveProcess

- Wheel Speed Requests
- Polling Drive Data
- Heat and Health Control/Requests

<<MODULE>>

#### ArmProcess

- Arm Position Requests
- Path Calculations (?)
- Polling Data for Arm Visulalization

<<MODULE>>

#### ExperimentProcess

- Drill Control Requests
- Bluetooth data monitoring (serial)

<<MODULE>>

#### BatteryProcess

- Power Data Monitoring
- Access to any editable parameters

<<MODULE>>

#### CameraProcess

- Control of active camera module if possible...
- Pan and Tilt requests

<<MODULE>>

#### NavigationProcess

- GPS Control
- Compas calculations
- Auto Navigation Commands

### PackageName

<<MODULE>>

#### WebserverProcess

- Display of Data to User via Bottle
- Control information to other Modules

<<SUB-MODULE>>

#### WebserverInput

- Input from Joysticks
- Other input???

<<SUB-MODULE>>

#### WeberverResources

- Pictures and Images for Bottle
- CSS and other Formatting