

rover_commands.rs — Rover Science Commands

This file is work in progress

These commands are called by the frontend to request measurements or send data to the rover. All four are currently partially stubbed — they simulate a 1-second rover response delay and return dummy values, but the actual UDP dispatch logic is ready to be wired in.

`request_coordinates() → (i16, i16)` Requests the rover's current GPS coordinates. Returns a `(latitude, longitude)` tuple.

`request_weight() → i16` Requests the weight of a collected rock sample from the rover's load cell. Returns a weight value in grams.

`request_measurement(camera1, x1, y1, camera2, x2, y2) → i16` Requests a stereo distance measurement. The frontend passes two pixel coordinates (one per camera) and the rover computes the real-world distance to that point. Returns the distance in a unit TBD.

`send_pixel(camera, x, y)` Sends a single pixel coordinate from the frontend to the rover (e.g. operator clicking on an object in the video feed). Used to direct the rover's attention or arm toward a specific point in the image.

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