

## GUI:

High level requirements successfully achieved:

- R0011: Rover and map movements corresponding with arrow keys.
  - o Movements of the rover in the map with keys
  - o Movements of the rover in the map with mouse clicks
- R0012: Auto / Manual mode
  - o State-driven changes
  - o Movement disability in auto mode
- R0014: Emergency Stop button
  - o 1 click to engage, 2 clicks to disengage
  - o Timing mechanism
  - o Emergency Label to show mode changes
- R0009: Adding graphics to map, for NGZ's destination
  - o No functionalities yet
  - o Graphics are fixed
  - o Has the points stored
- R0015: Status bar
  - o Displays the current modes and actions related to the rover

Buttons added but has no functionalities yet

- o Import, Export, Return, Add NGZ, Remove NGZ, Destination and Legends

Other requirements

- R0027: Mini map
  - o A small map fixed to the rover and shows its surroundings.
- R0019: Help document
- R0023: Rover logs
  - o A record of what the status displayed
  - o Has timing values of when the things were executed
  - o Works in real-time
- GUI screen compatibility
  - o Compatible for different type of screen resolutions

To ask:

- Conflicting button movements when pressing the keys.
- What should be done in emergency state

## Rover:

- Sensor is successfully connected and the computer can receive signals from rover, using the ultra-sensor as values and will be displayed in the status log.
- Movements working but not yet as intended, rover movements needs to be smoother. Disrupted by the tick() functions in the GUI