Sprint planing 2

Mechanical:

Mobile prototype:

1. Build tire/rim.
2. Buy and assemble gear.
3. Buy and install belts.
4. Buy and install Castor wheel.
5. Make motor mounts.
6. Install motors with mounts.

Build sensor mounting

Electrical:

Order motor control.

Build an electronics mounting board (prototype).

Order connectors for power.

Order connectors for sensor.

Select and order encoder.

Circuit breakers and fuses.

Power arduino and install.

Sensors:

Learn how to use Flir camera.

Find and buy single pixle sensor.

Test single pixle sensor.

Order RFID readers.

Order 200 RFID´s

Design localization software.

Test ultrasonic sensors.

Test IR sensors.

RGB camera test on numbers.

Vibration test for sensors.

Software:

Buy a solid state drive.

Arduino ROS.

Sensor ROS.

Motor ROS.

Software design (block diagram)

System documentation.

Install ROS on FIT-PC.

Thermal image processing flow.

System bench controller test.