1. Test Arduino -> done -> is working

2. Test motors and motor driver -> done -> working

3. Battery voltage:

b1: 3.37 V

b2: 3.46 V -> 3.75 V

b3: 3.45 V

-> To Do: charge battery until 3.7 V each cell and a total voltage of 11.1 V

-> test other battery, to see if can be charged and used

4. Chassis remake

- take protection foil down -> done

- remake the circuit and the placement of the components

- buy termocontractil band for a better arrangement of the wires

- WIRE MANAGEMENT!!!

5. Test 2 servo-motors

-> only one servo-motor is available in Sibiu, and it is not working properly

-> bring 2-3 servo-motors from Tg-Mures!!!

6. Think about a way to create the "environment" for the lidar sensor

7. Read how lidar sensor works and create a small documentation about it

-> AT WORK

-> Remark: learn how to make a logic converter and how save it is to use is (dispite a classical logical converter which can be bought)

-> solved by buying a logic converter

-> remark 2: Lidar library for Arduino can be installed, or it is saved in the 02\_Researches folder.

8. Read how wireless connector works and create a small documention about it and how to connect it to arduino

9. Prepare documentation for university until end of this week

-> send documentation to Brad R. -> done

-> send e-mail to university and check when the plan has to be given

10. Prepare good documentation about lidar sensor, with references and without copying.

-> ToDo: make a small circuit in a dedicated tool (Ask Madalina) with the pin connection between sensor and Arduino

11. Prepare documentation about similar projects with lidar sensor (see 00\_Documents for more projects). – at least 3 projects.

12. Order from dedeman and leroy merlin necessary tools for making the circuits

-> solder the logic converter for lidar sensor

-> solder the wireless module

13. Search how to send data from Arduino to Matlab

-> Install Matlab on personal laptop

14. Prepare good documentation about wireless module, with references and without copying.

-> ToDo: make a small circuit in a dedicated tool with the pin connection between module and Arduino

15. Write documentation for dissertation - researches

15.1 – write about SLAM (chapter)

15.2 – write about localization methods

15.3 – write obstacle detection

15.4 – write about autonomous mobile robots

15.5 – write about real-world autonomous navigation

15.6 – write about local map and global map

15.7 – write about odometry

16. Understand how “Software serial” works on Arduino.

17. Arduino and Matlab simple communication

17.1 – Make a connection between Matlab and Arduino using USB

17.2 – Make a connection between Matlab and Arduino using wireless module

18. Test if the other Arduino board is working

19. Make the obstacle detection algorithm for robot