Internship 2022

Progress report

Name: Allan Were

Tasks completed last week

- [#9] circuit diagram of the robot tractor

The circuit diagram of the robot car was completed. This would enable the robot tractor to move while avoiding obstacles

- [#16] Definition of the path followed by robot car

For our robot to follow the correct path during the tillage process, a path has to be defined to ensure that all the areas of the farmland is well tilled.

- [#22] Laser cutting of robot chassis

An introduction to the laser cutting machine was done. Operation of the machine and use of the Corel draw software was done.

Figure 1 laser cutting process

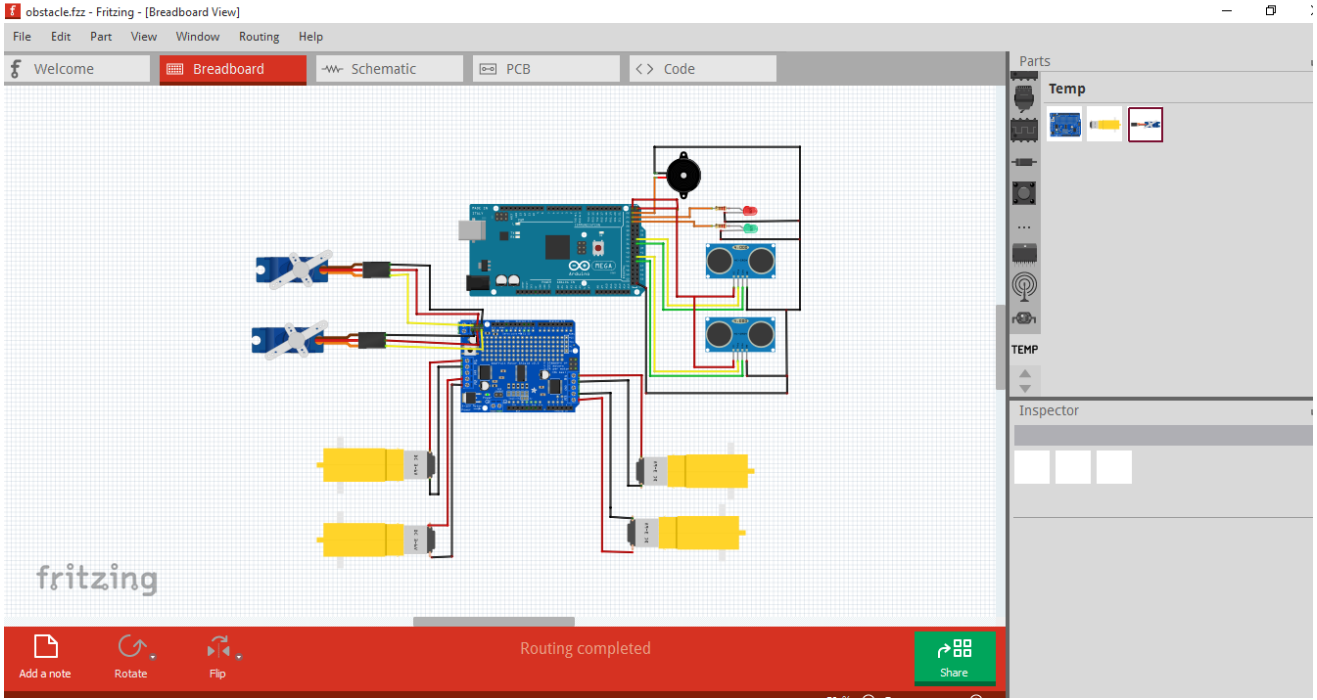

Figure 2 fritzing drawing of the circuit

Tasks in this week

- [#15] Redesign of the chassis diagram

Adjustment made in the design to obtain correct dimension tolerance of some parts.

- [#23] 3D design of the chassis and motor mounts

Using the AutoCAD, a design of the mounts that will be used to lock the motors to the chassis and to join the chassis using fasteners

- [#24] 3D printing of the motor mounts and chassis mounts

Timeline

Month	Intern week	Tasks
Jan		
	Week 1	Identification of parts and drawing of the chassis diagram
	Week 2	Circuit diagram and acquisition of parts.
	Week 3	Definition of the path to be followed by the robot car Laser cutting
Feb	Week 4	

	Week 5	
	Week 6	
	Week 7	