Line following truck

Lauri Ala-Mursula
Aleksi Ylihurula
Tanguy Moriceau

Group 22 - https://github.com/Aleksi21/Line_tracing_truck

Line following truck

Reports

Available on our repository:

- Introductory report
- Weeks I, II, III, IV, V
- Summary report

Line following truck

Summary

Our truck can **drive forward**, sense the **ambient luminosity** and **turn on/off the frontal lights**.

To build this truck, we mainly used the **laser cutter** of the FabLab, as well as the **Inkscape** and **Fusion360** software.

Line following truck

Summary

Sensors: ambient light sensor

Actuators: 2 LED's, DC motor

Others: 4 home-made wheels, breadbord, Arduino Uno, battery

Group 22 - https://github.com/Aleksi21/Line_tracing_truck

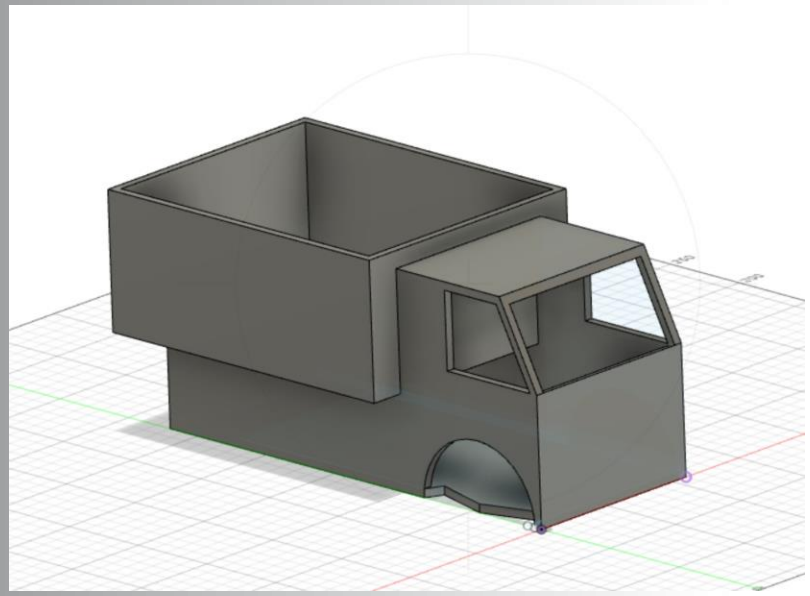
Line following truck

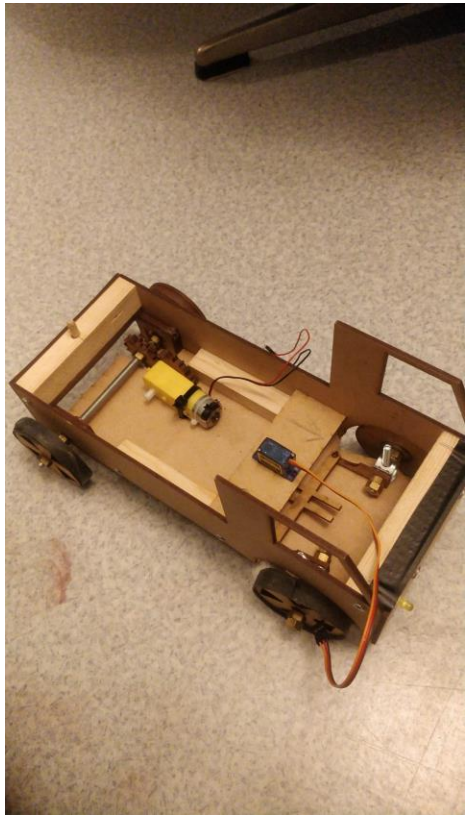
Summary

Group 22 - https://github.com/Aleksi21/Line_tracing_truck

Line following truck

Summary





Group 22 - https://github.com/Aleksi21/Line_tracing_truck

Line following truck

Sustainability

- Truck made out of plywood, wood and MDF (re-using from the FabLab)

- The wheels we are using were designed and made by Lauri

- Re-use of the materials of the prototype

- Tried to make a final truck as small as possible

Line following truck

Reflections

We probably underestimated the amount of work that we needed to bring for this project.

We should have kept our rhythm of work of the first weeks.

BUT

This project definitely helped us to learn new things and new skills.

We acquired the opportunity to make a product of our choice and to use our newly acquired knowledge to perform all the tasks needed.

This project brought a concrete use of the technologies we can find in FabLabs and what we can do with electronics and informatics.

Group 22 - https://github.com/Aleksi21/Line_tracing_truck

Line following truck

Thank you for listening!
Any questions?