

## Why a LeRo workshop?

**Missions look easy — until your run in the competition suddenly becomes unstable**

**In the LeRo workshop, you'll learn how mechanics, software and strategy work together reliably.**

**We break tasks down in such a way that a robust plan emerges from 100,000 possibilities**

**Even experienced teams are finding new ways to achieve consistent performances, better teamwork and more points in the competition**

**Join the pilot workshop and take your team to the next level**

**Less luck. More consistent runs!**

**For the skilled workers of tomorrow!**



**FabLab@Oberaargau / BE**

c-tech.ch gmbh  
Hintergass 6A

4914 Roggwil / BE

Telephone: +41 62 929 2448

E-Mail: lero-workshop@c-tech.ch

**Applied technologies –  
Mechatronics – Sports  
robotics – Interdisciplinary!**

***FabLab@Oberaargau / BE  
Presented by:***



***When:  
30 October – 1 November 26***

# What is a LegoRobotics workshop?

Are you part of a robotics team and keen to share experiences with other teams, or to learn about new design approaches and/or programming strategies?

Or are you a coach who keeps coming up against similar problems?

## Procedure

With the LeRo workshop, we aim to create a platform that brings together our expertise in robotics and keeps our networking alive.

## Manifestations

The pilot workshop will focus on the WRO and FLL competitions. Future workshops will be deliberately kept open! (EuroBot | FTC | FRC | etc.)



## Current agenda

| Tag-1<br>Freitag                  | Tag-2<br>Samstag                  | Tag-3<br>Sonntag           |
|-----------------------------------|-----------------------------------|----------------------------|
|                                   | 07:30 - 08:00   WakeUp            | 07:30 - 08:00   WakeUp     |
|                                   | 08:00 - 09:00<br>Breakfast        | 08:00 - 09:00<br>Breakfast |
|                                   | 09:00 - 10:30<br>Training         | 09:00 - 10:30<br>Training  |
|                                   |                                   | P7                         |
|                                   | 10:30 - 11:00   Break             | 10:30 - 11:00   Break      |
|                                   | 11:00 - 12:30<br>Training         | 11:00 - 12:30<br>Training  |
|                                   |                                   | P8                         |
|                                   | 12:30 - 14:00<br>Lunch            | 12:30 - 14:00<br>Lunch     |
| Arrival / Welcome                 |                                   |                            |
| 14:00 - 15:30<br>Training         | 14:00 - 15:30<br>Training         | 14:00 - 15:30<br>Show      |
|                                   | P1                                | P5                         |
| 15:30 - 16:00 Break               | 15:30 - 16:00 Break               | Departure / Abreise        |
| 16:00 - 17:30<br>Training         | 16:00 - 17:30<br>Training         |                            |
|                                   | P2                                | P6                         |
| 18:15 - 19:00<br>Dinner           | 18:15 - 19:00<br>Dinner           |                            |
| 19:00 - 21:00<br>Evening Programm | 19:00 - 21:00<br>Evening Programm |                            |

## Costs

Workshop with 2 lunches: CHF 180.—

Workshop with 2 lunches and 2 dinners: CHF 260.-

Early Bird booking until the end of August:  
10% off the standard price

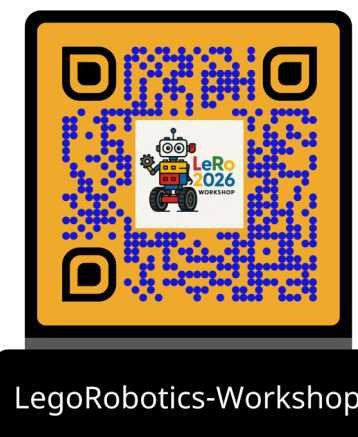
## Topics

The following topics will be covered in the individual workshops:

- Mechanical tips and tricks
- Chassis
- Wheels
- Lego pneumatics
- Third-party servos/sensors
- Key challenges in teamwork (and development)
- Programming with Visual Studio Code (VSC)
- Maintaining a development branch history with GitHub
- I'm a coach!
- etc.

## WHAT DOES A WORKSHOP-PARTICIPANT TAKE AWAY:

- ...get to know a large network
- ...functional mechanical strategies
- ...tackle problems using software
- ...can break down a task strategically ...develop their skills in a targeted way
- ...are familiar with various software frameworks
- ...are familiar with various platforms (EV3, SPIKE)
- ...And have loads of fun—of course!!



LegoRobotics-Workshop