# **Bionics4Education: Learning Path**

**Bionic Flower** 



#### **Pure practice**

• Assembly with brief instructions



## Strengthen digital skills

• Digital tools with online CAD - design of components or spare parts



## Theory and practice

- Biology background knowledge
- Team building
- Project planning
- Control via mobile devices
- Be creative and design your own petals



- 3D printing print your own components and spare parts e.g. the bowl (partly Open Source materials available)
- Coding Bionic Flower with the Open Roberta Lab or Coding activities on GitHub Bionics4Education
- Course materials on the Festo Learning Platform (LX)

## Advanced learning fields

- Scrum agile project management method and teaching of the 4 C competencies
- Information about interdisciplinary teams in Bionics and possible STEM career pathways