



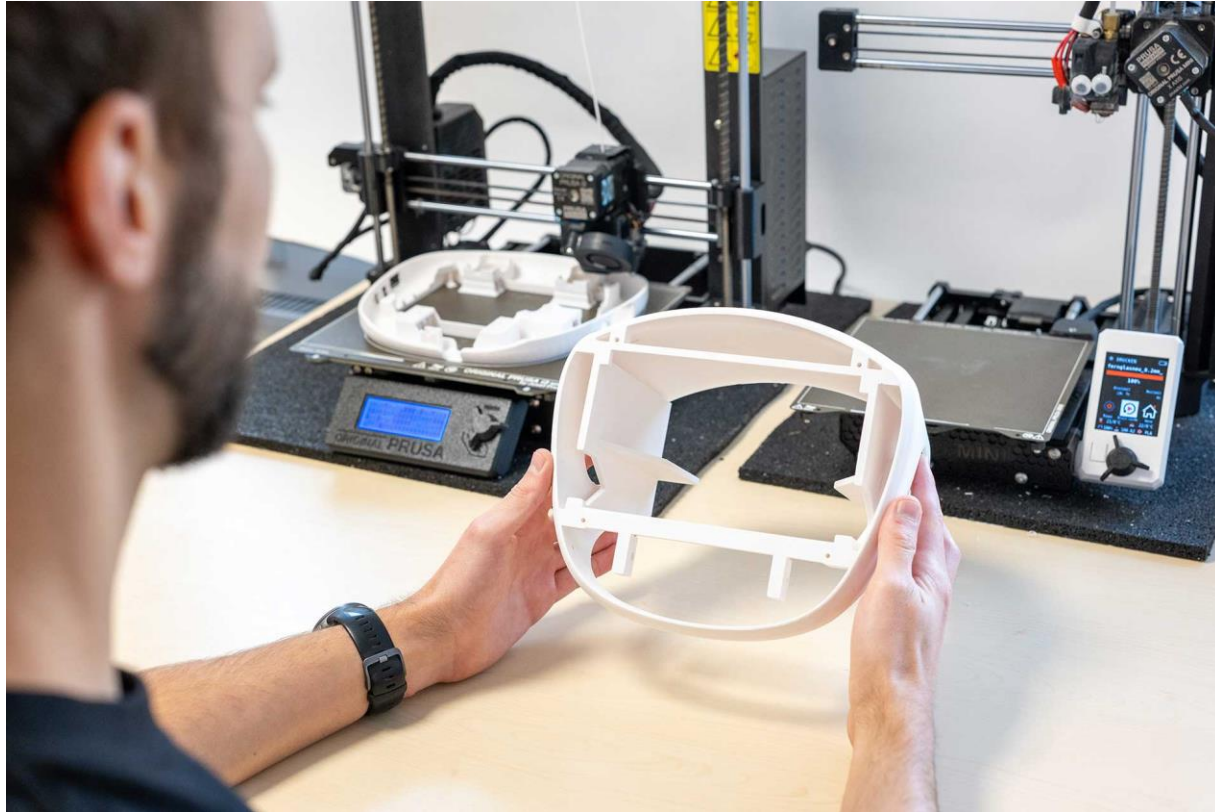
„pib, der humanoide open-source Roboter
aus dem 3D-Drucker“



„pib - der smarte humanoide Roboter zum Selberbauen“

- 3D-druckbar
- KI-fähig
- programmierbar
- pib.Cerebra Software
- ROS2-basiert







Einfacher Zusammenbau

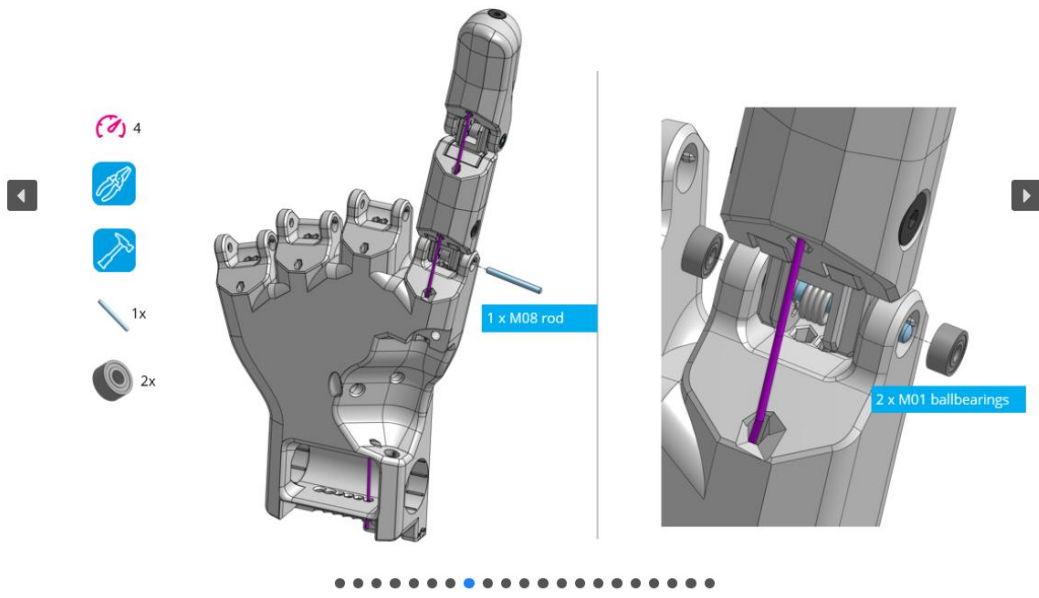


Step 2b

Fix the finger using 1 x M08 rod and insert 2 x M01 ballbearings in the shown spots of D02.

This step can be a little tricky!

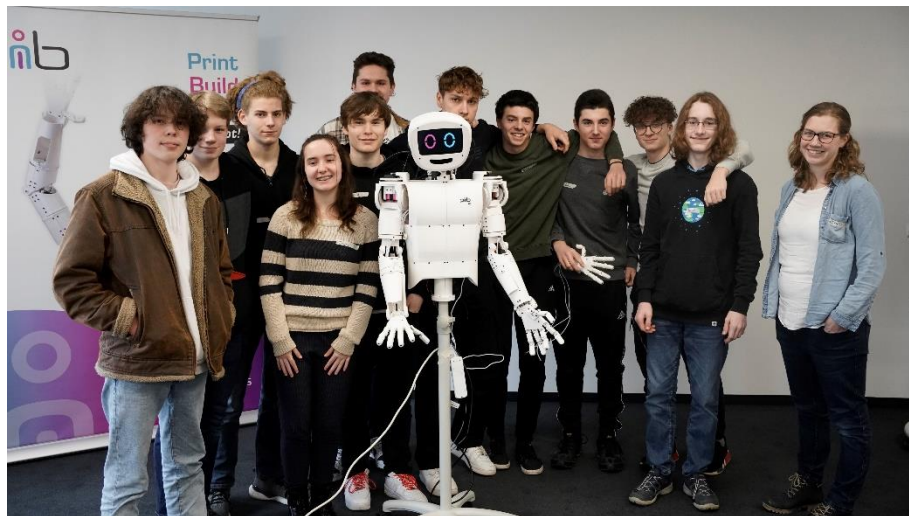
We suggest to start with the ballbearing which faces a finger, then putting the rod and closing it with the other ballbearing. A hammer and a tongs will help you here!



Junge Menschen für Zukunftstechnologien begeistern

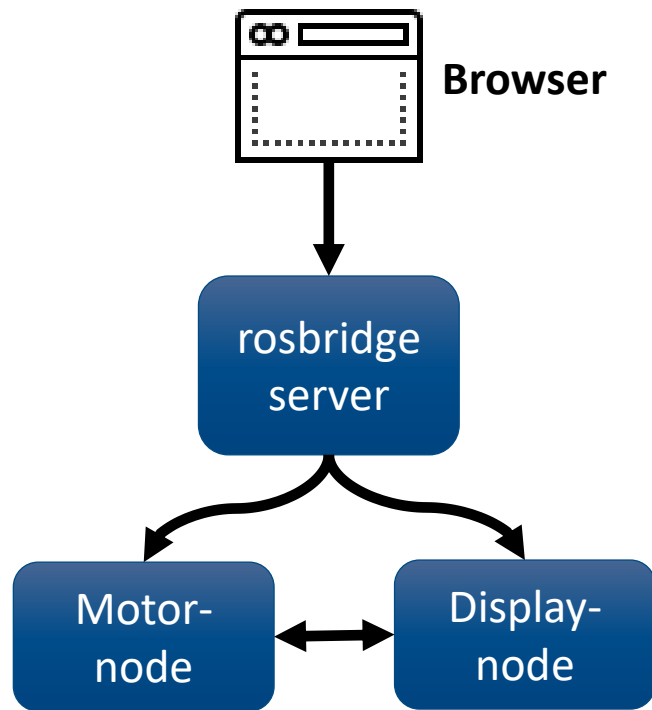
“pib begeistert unsere Schüler:innen und Lehrkräfte gleichermaßen. Eine tolle Ergänzung für unsere Schule, um Zukunftstechnologien erlebbar zu machen.”

Carsten Böckl, Headmaster
Hans-Sachs-Gymnasium Nuremberg



ROS2-nodes für:

- Motorsteuerung/-information **neu!**
- Sprachassistenten/-steuerung **neu!**
- Camera
- Grafische Programmierung (Blockly) **neu!**
- Face-Display **neu!**





Motoren manuell steuern



Select a touch point to adjust.

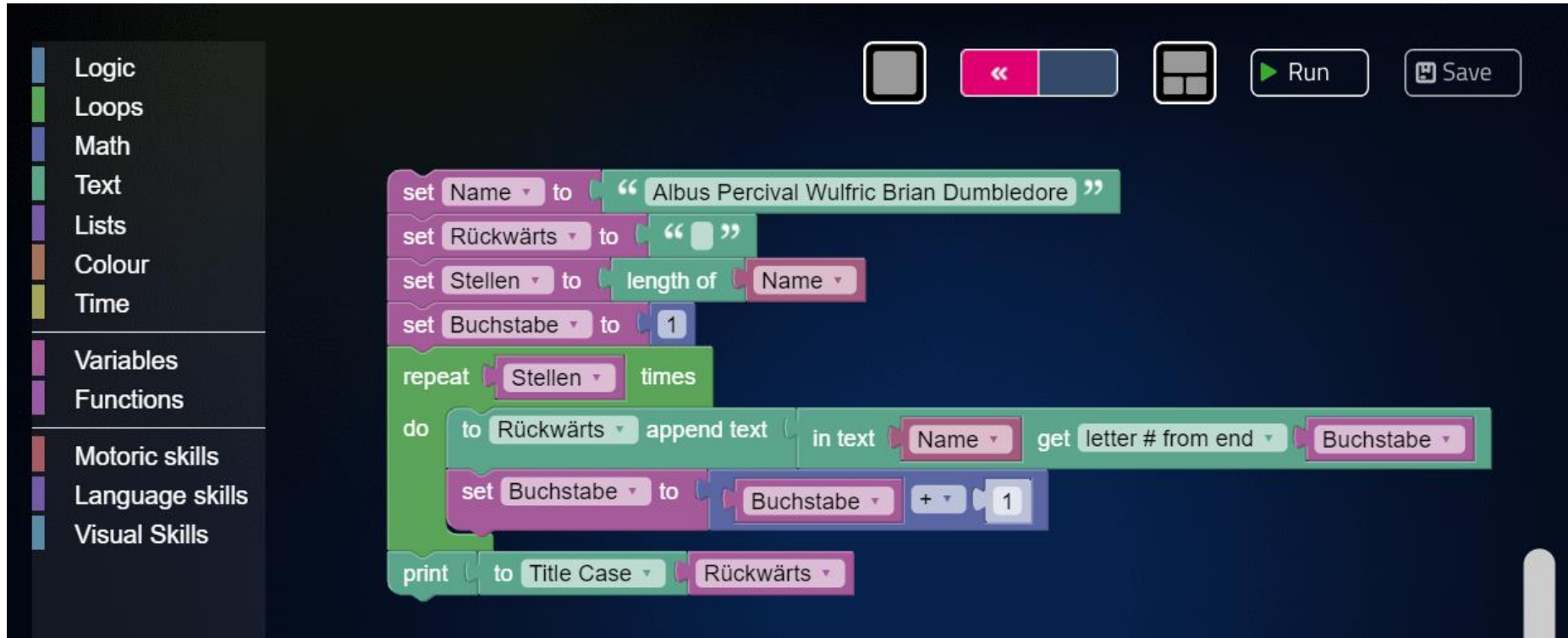


		Current	Active	Settings
	☐	43 mA	☒	
	☒	870 mA	☒	
	☐	12 mA	☒	
	☐	324 mA	☒	
	☐	26 mA	☒	
	☐	0 mA	☒	

Shoulder Vertical

-90 33 90



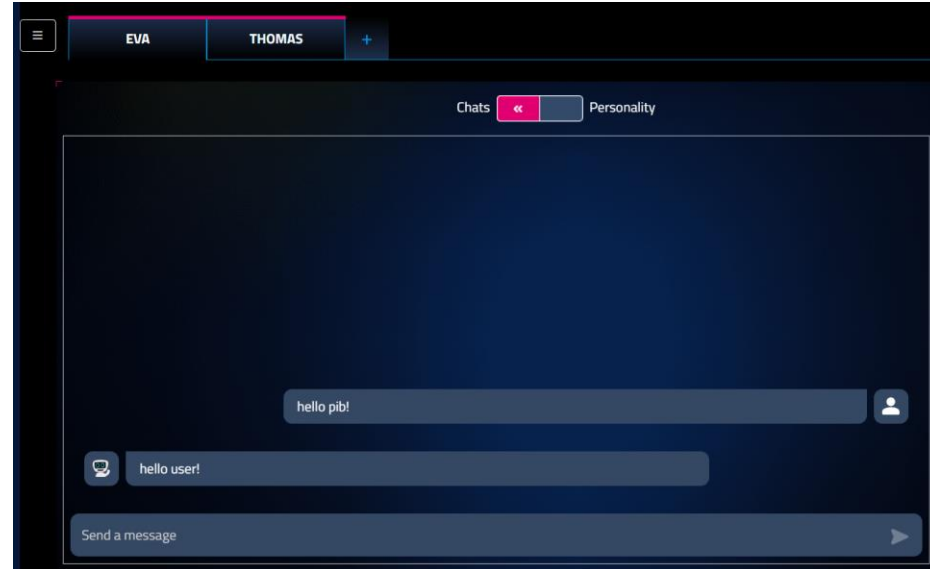


The image shows a graphical programming environment with a dark blue background. On the left is a sidebar with categories: Logic, Loops, Math, Text, Lists, Colour, Time, Variables, Functions, Motoric skills, Language skills, and Visual Skills. Each category has a corresponding colored icon. The main workspace contains a script with the following blocks:

- set Name to "Albus Percival Wulfric Brian Dumbledore"
- set Rückwärts to ""
- set Stellen to length of Name
- set Buchstabe to 1
- repeat (Stellen) times
 - do
 - to Rückwärts append text in text Name get letter # from end Buchstabe
 - set Buchstabe to Buchstabe + 1
- print to Title Case Rückwärts

At the top right of the workspace are several icons: a square, a double left arrow, a window icon, a green flag icon with the text "Run", and a floppy disk icon with the text "Save".

- Mit pib sprechen
- Kommunikation per Chat
- Eigene Persönlichkeiten erstellen
- Sprachmodelle vergleichen



- Ausgang: Raspberry Pi 4 + Ubuntu 22.04 + ROS2 Humble
- Raspberry 5: ~~Ubuntu 22.04~~ → 24.04 + ROS2 Jazzy
- Tinkerforge: ~~Ubuntu 24.04~~ → Raspberry Pi OS + ROS2 ??



Lösung: WE  
docker

pib ist preisgekrönt im Bereich Bildung und Innovation:



JUGEND FORSCHT 2024
Human-Machine Interaction
Liebfrauenschule Bensheim



P-SEMINARPREIS 2024
Ernestinum Coburg



CIVIC INNOVATION
Award 2023



MUNICH DIGITAL
Innovation Award 2023



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