Speed

Keep Driving and Nobody Explodes

Idea: Defuse a moving bomb

Driver

- drive car at constant speed
- make sure it doesn‘t hit anything

Bomb Defuser

- move with car
- tells **Instructor** what‘s displayed
- enter correct defuse code

Instructor

- has the manual
- tells **Defuser** the correct code

Components

- an on-car interface for the **Bomb Defuser**
- a manual for the **Instructor**
- a controller for the **Driver**
- a remote controlled car

On-car interface

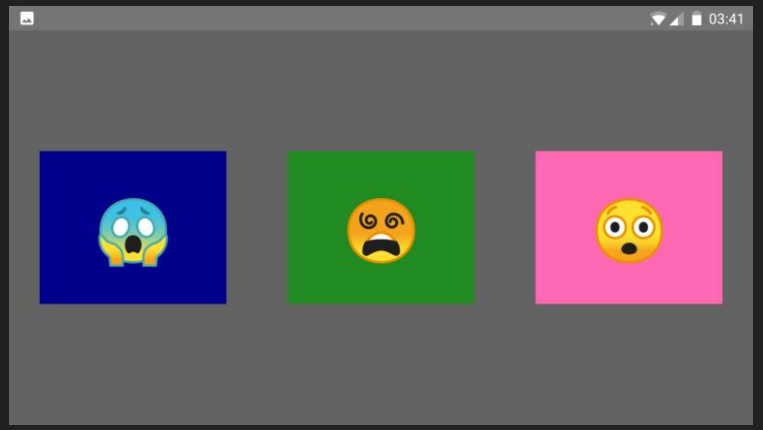
Use a smartphone app on a smartphone tied to the car!

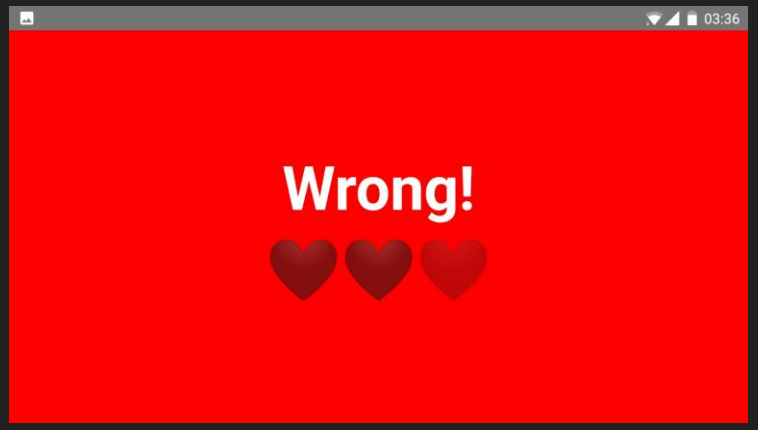
Codes 🤔 Simply use Emojis 😄

Bomb defuser needs to find the right solution.

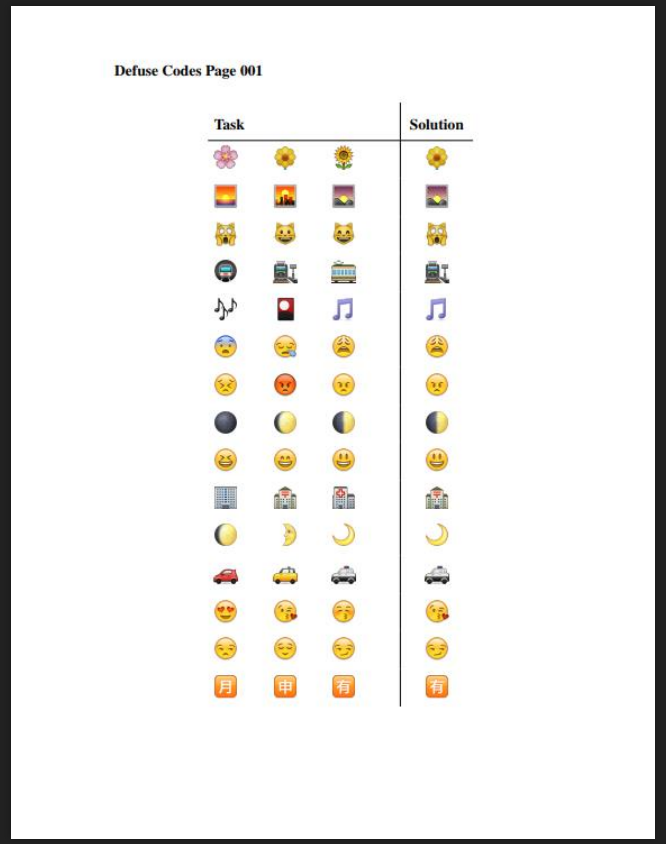
Three lives in case of wrong answers.

Ask the **Instructor** for the correct solution.





Instructor Manual



Defuse Codes Page 001

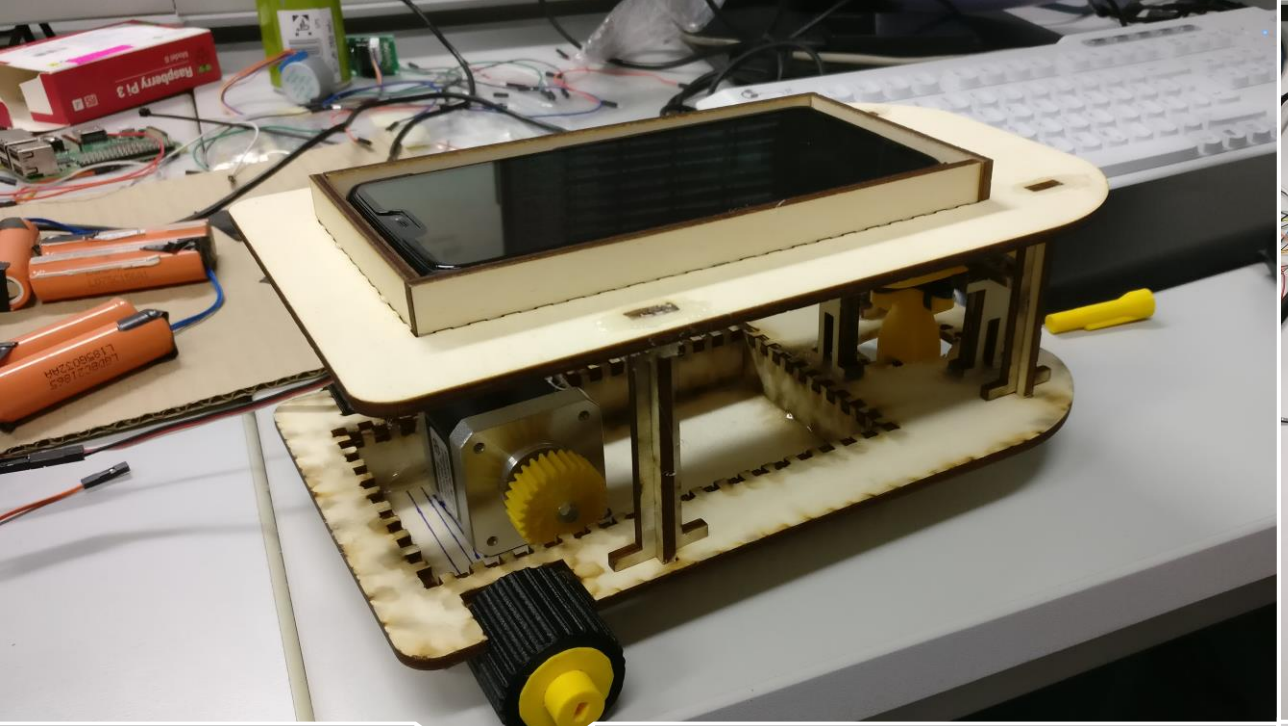
Task			Solution
🌼	🌻	🌻	🌻
🌇	🌇	🌇	🌇
😾	😾	😾	😾
🚇	🚆	🚋	🚆
🎶	🎴	🎵	🎵
😰	😪	😩	😩
😠	😡	😠	😠
🌑	🌒	🌓	🌓
😆	😄	😃	😃
🏢	🏫	🏫	🏫
🌒	🌛	🌙	🌙
🚗	🚕	🚓	🚓
😍	😘	😚	😘
😒	😔	😏	😏
月	申	有	有

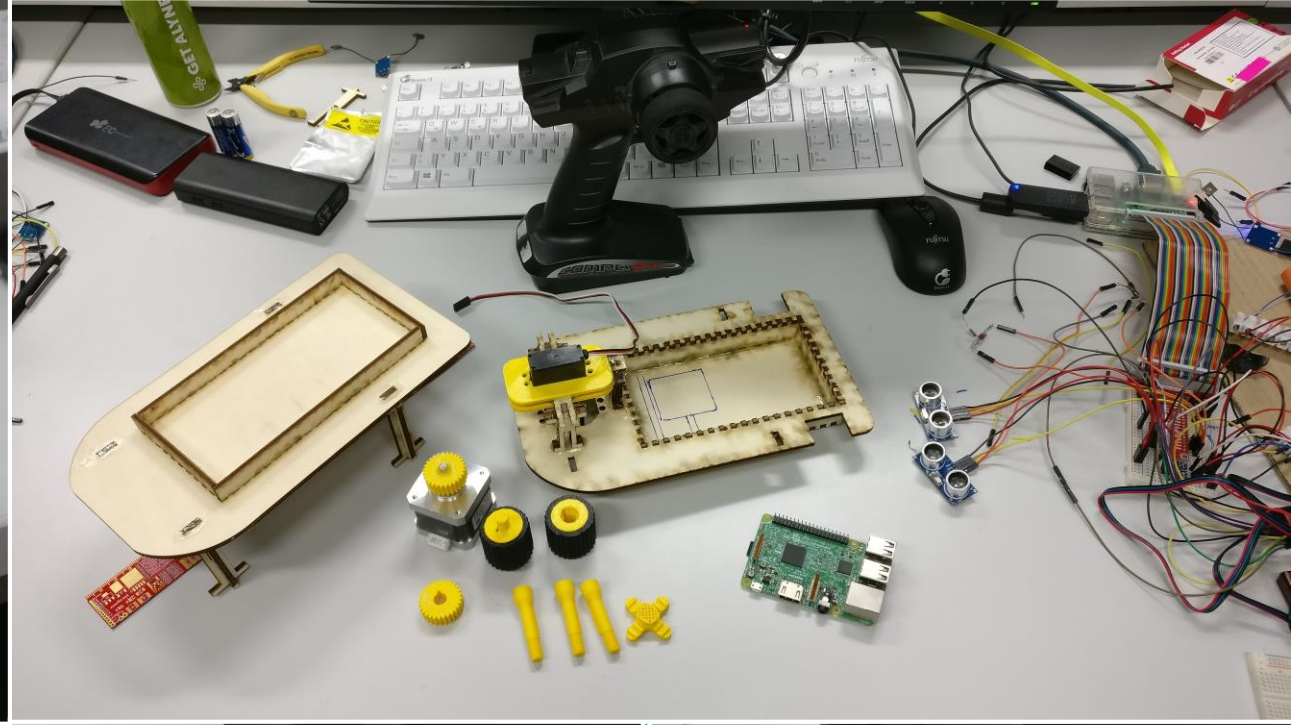
Python generated PDF with random solutions

Controller

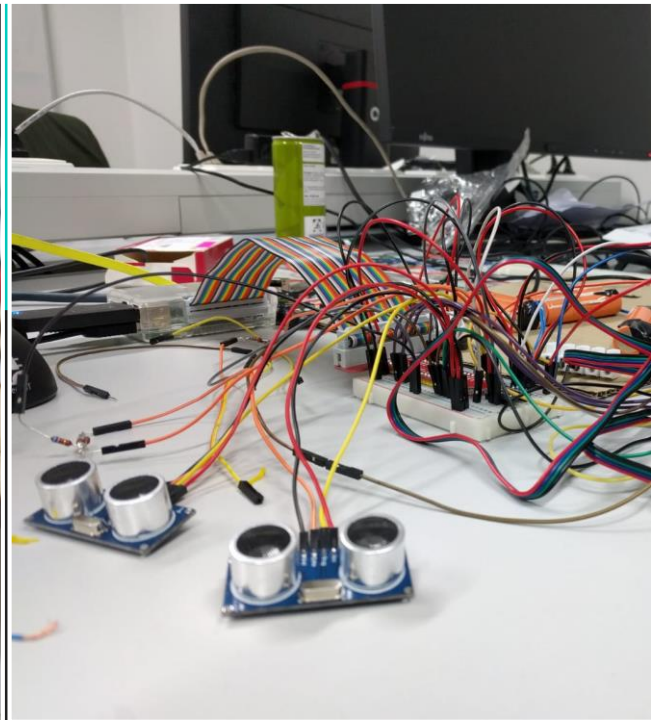
The car

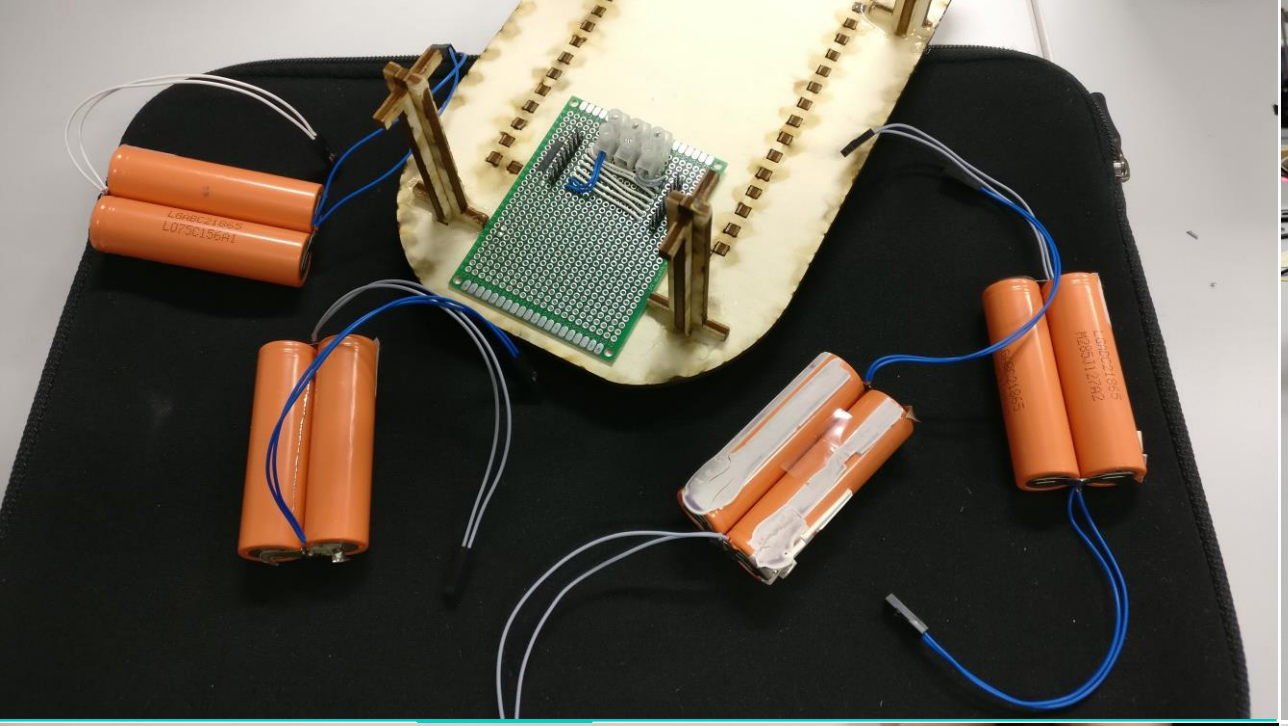
- Raspberry PI
- Servo motor
- Stepper motor
- 3D printed wheels, tires, axis, gears
- Distance sensors
- Batteries

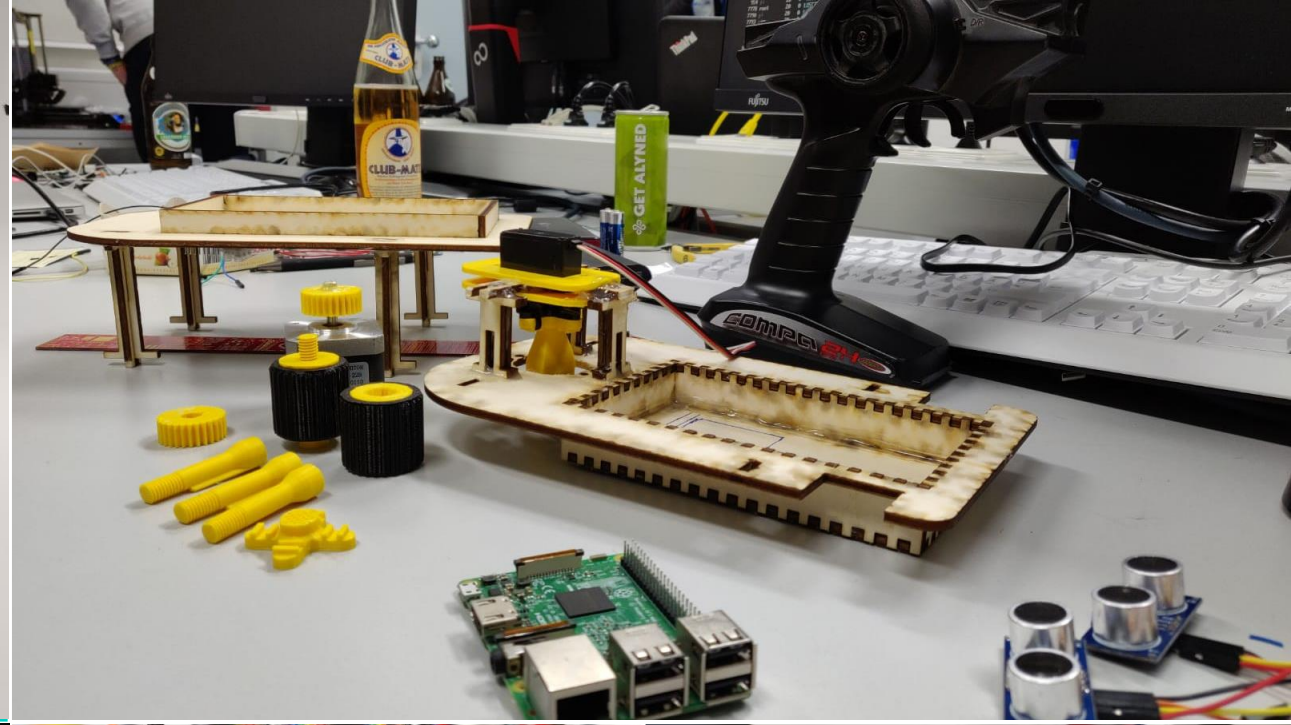


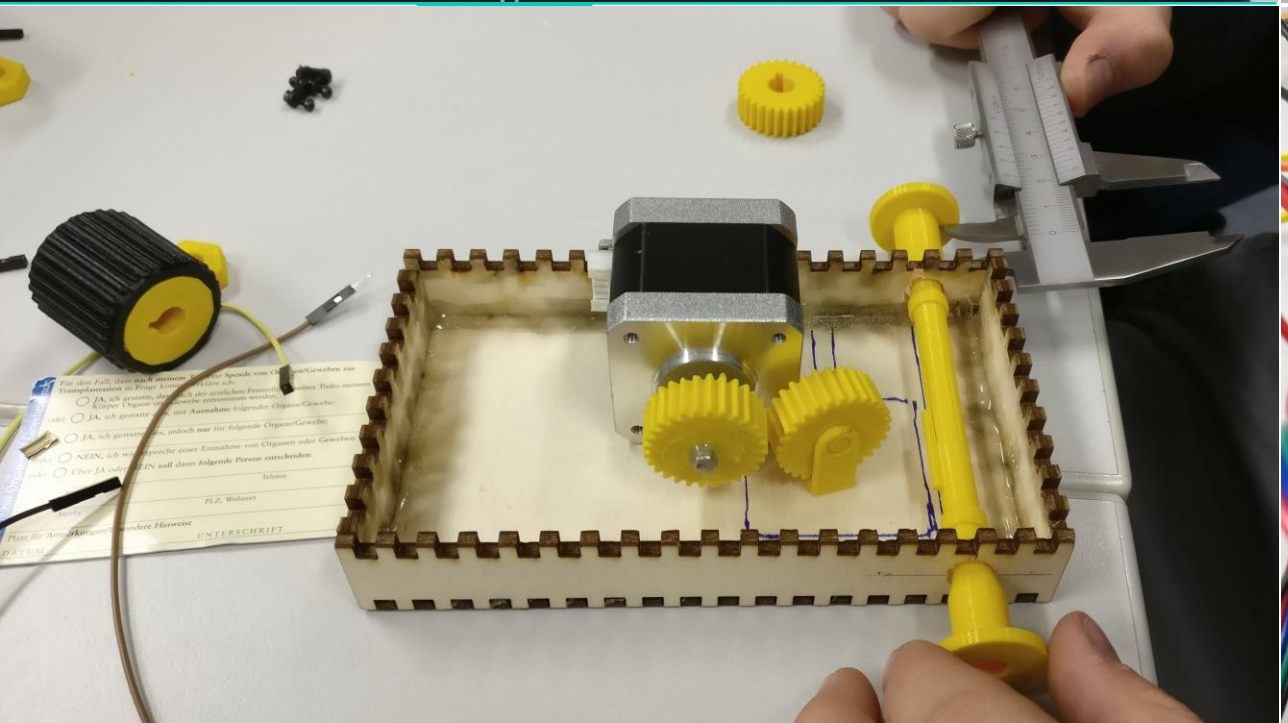


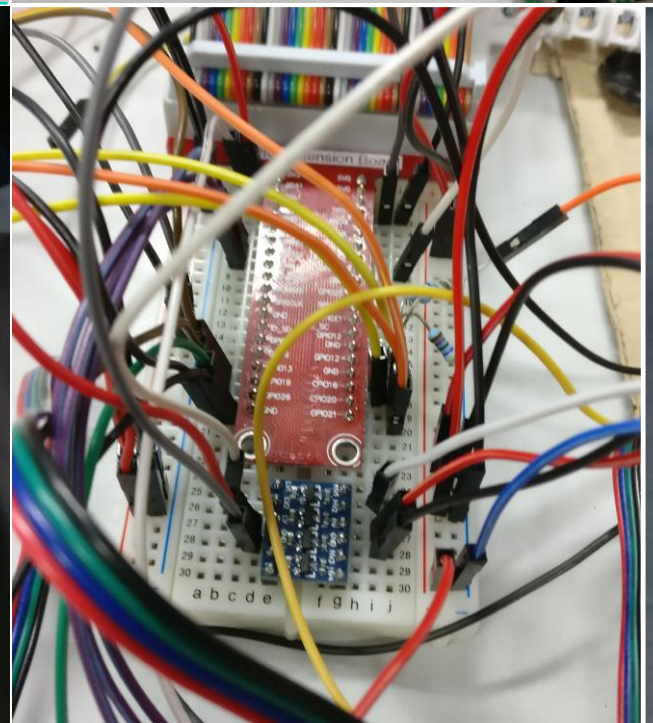
Building the car – Impressions






CLUB-MA
GET ALYNED
compact 9H





What‘s done

- ✓ Android app
- ✓ Communication with the Raspberry
  (stop motor on failure and send collision data)
- ✓ Run stepper motor
- ✓ Parse controller data to move steering wheel
- ✓ Collision sensors
- ✓ Batteries

- ✗ **Missing:** Putting it all together in one chassis