
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

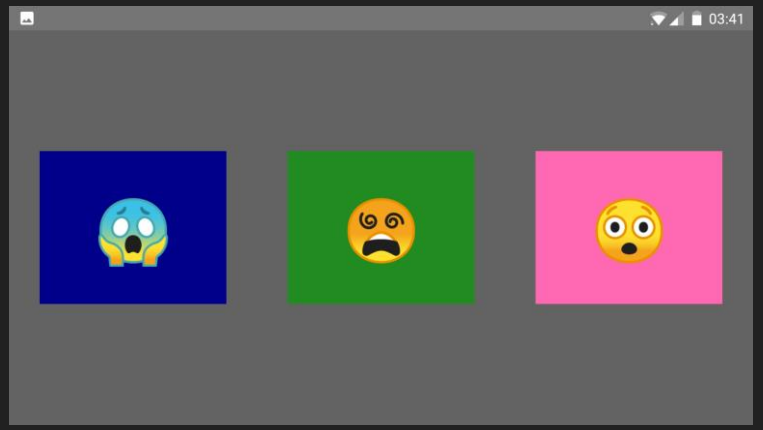
- an on-car interface for the **Bomb Defuser**
- a manual for the **Instructor**
- a controller for the **Driver**
- a remote controlled car

On-car interface

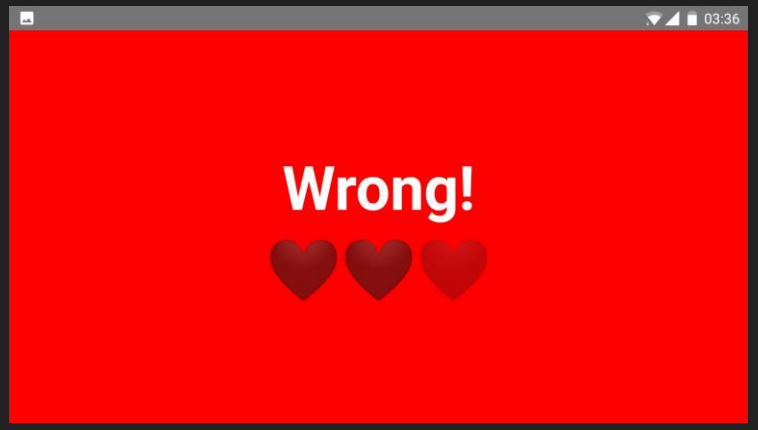
Use a smartphone app on a smartphone tied to the car!

Codes 🤔 Simply use Emojis 😄

Bomb defuser needs to find the right solution.

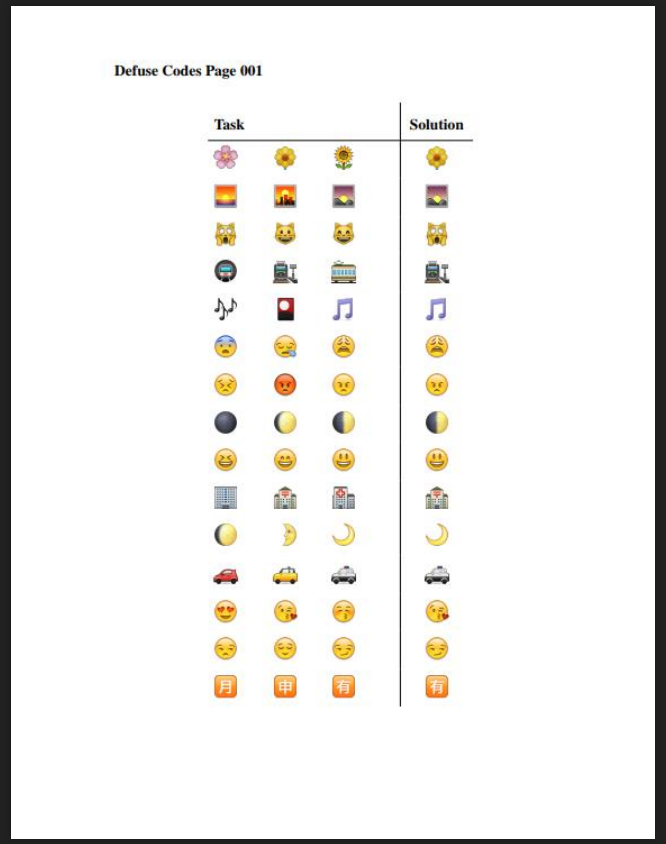


Three lives in case of wrong answers.



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

Instructor Manual


Defuse Codes Page 001

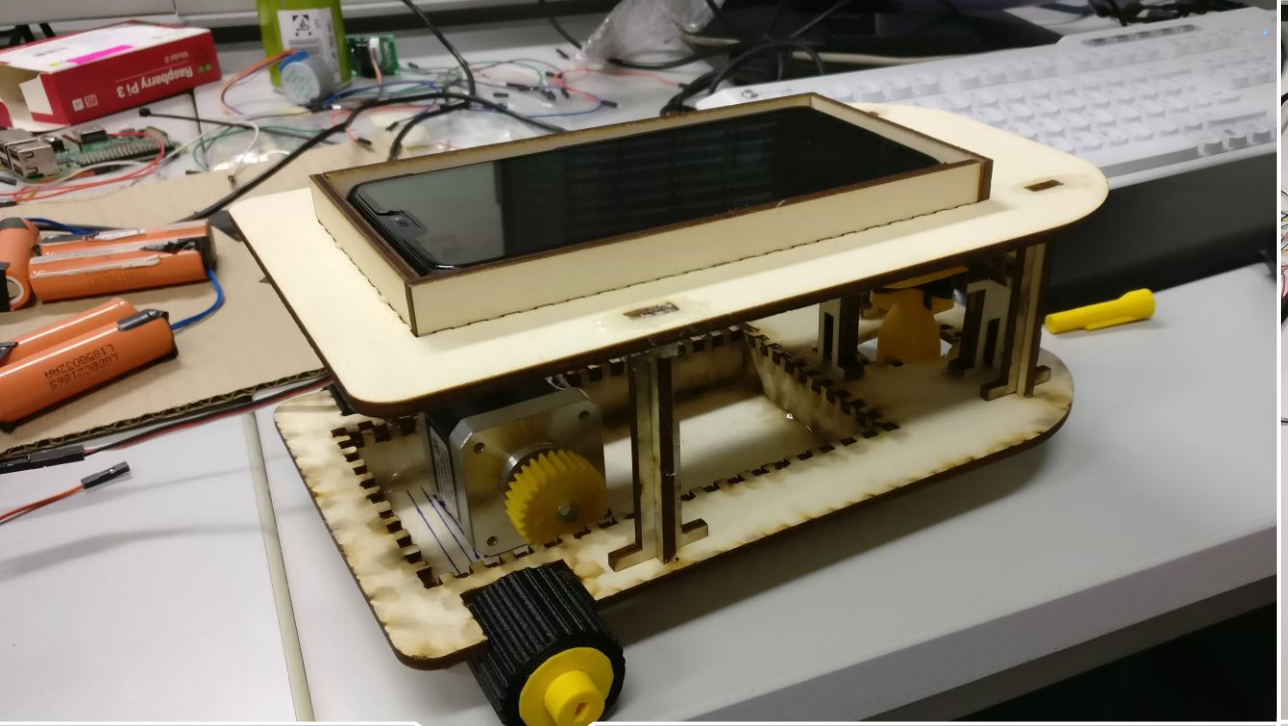
Task	Solution
🌸 🌻 🌻	🌻
🌇 🌇 🌇	🌇
😾 😾 😾	😾
🚇 🚆 🚃	🚆
🎶 🎴 🎵	🎵
😰 😪 😩	😩
😠 😡 😠	😠
🌑 🌒 🌓	🌓
😆 😄 😃	😃
🏢 🏫 🏫	🏫
🌒 🌛 🌙	🌙
🚗 🚕 🚓	🚓
😍 😘 😚	😘
😒 😔 😏	😏
月 申 有	有

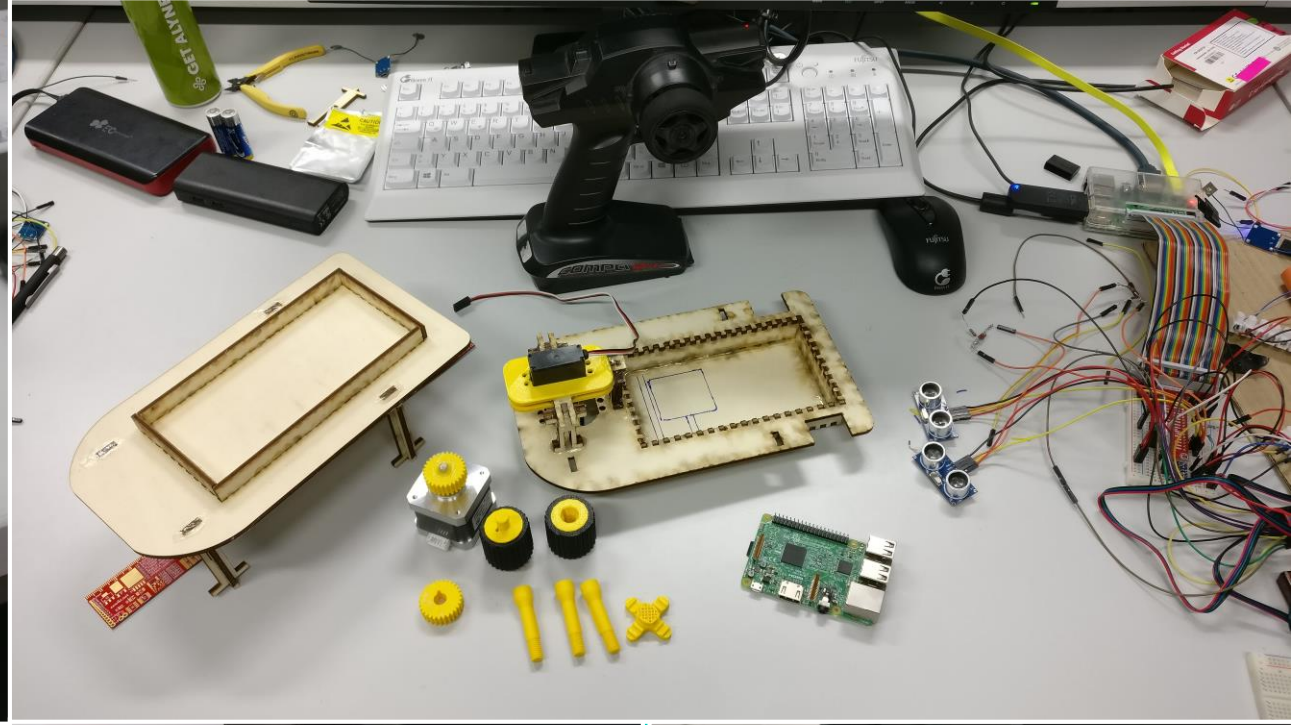
Python generated PDF with random solutions

Controller

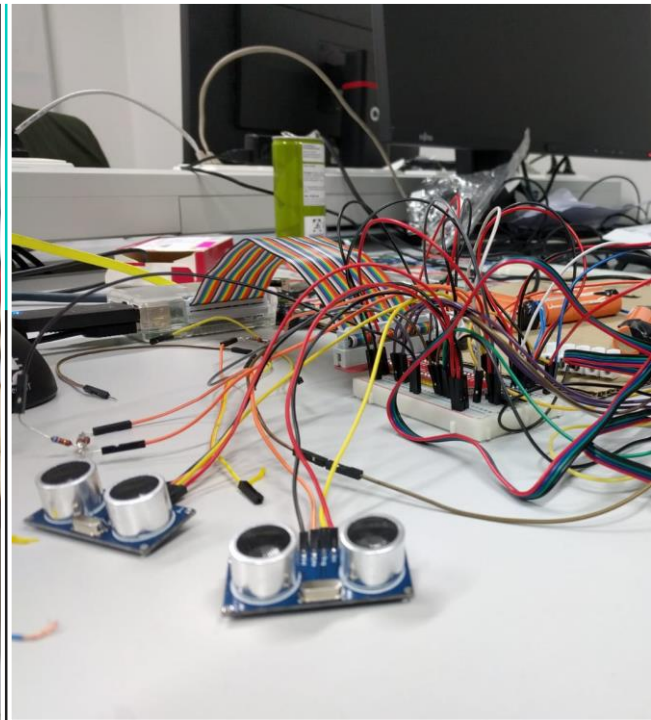
The car

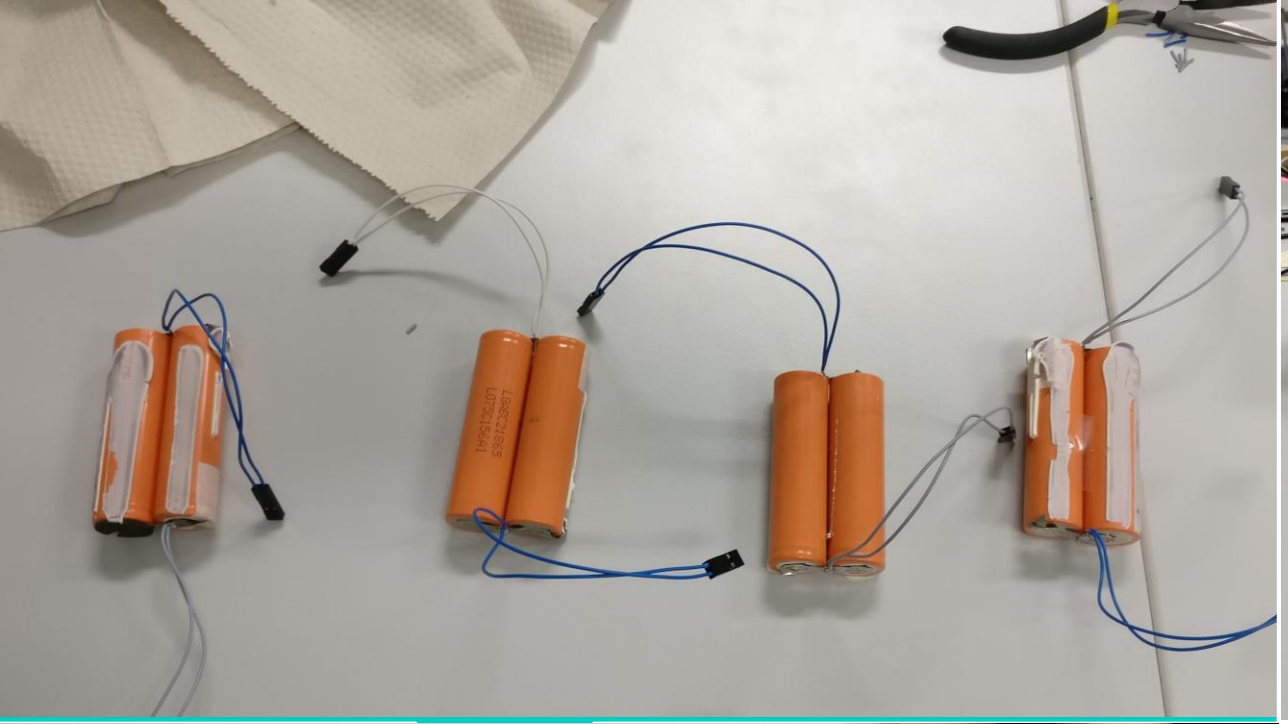
- Raspberry PI
- Servo motor
- Stepper motor
- 3D printed wheels, tires, axis, gears
- Distance sensors
- Batteries

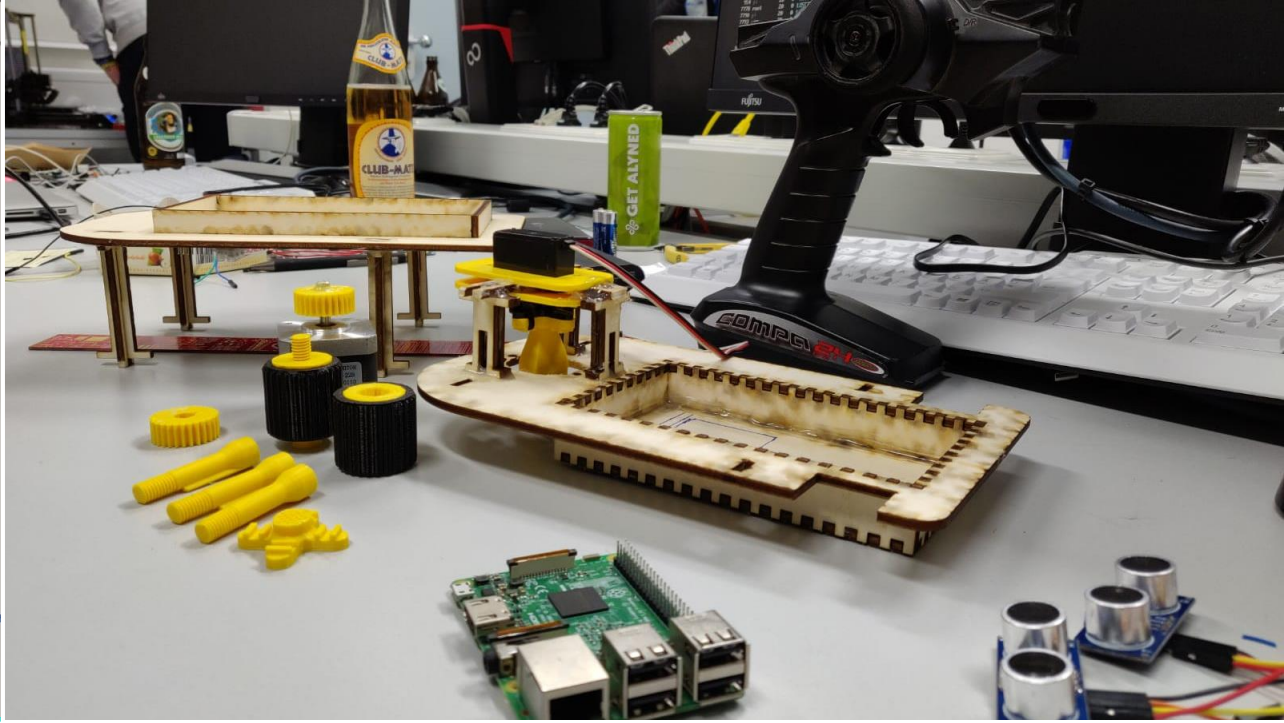


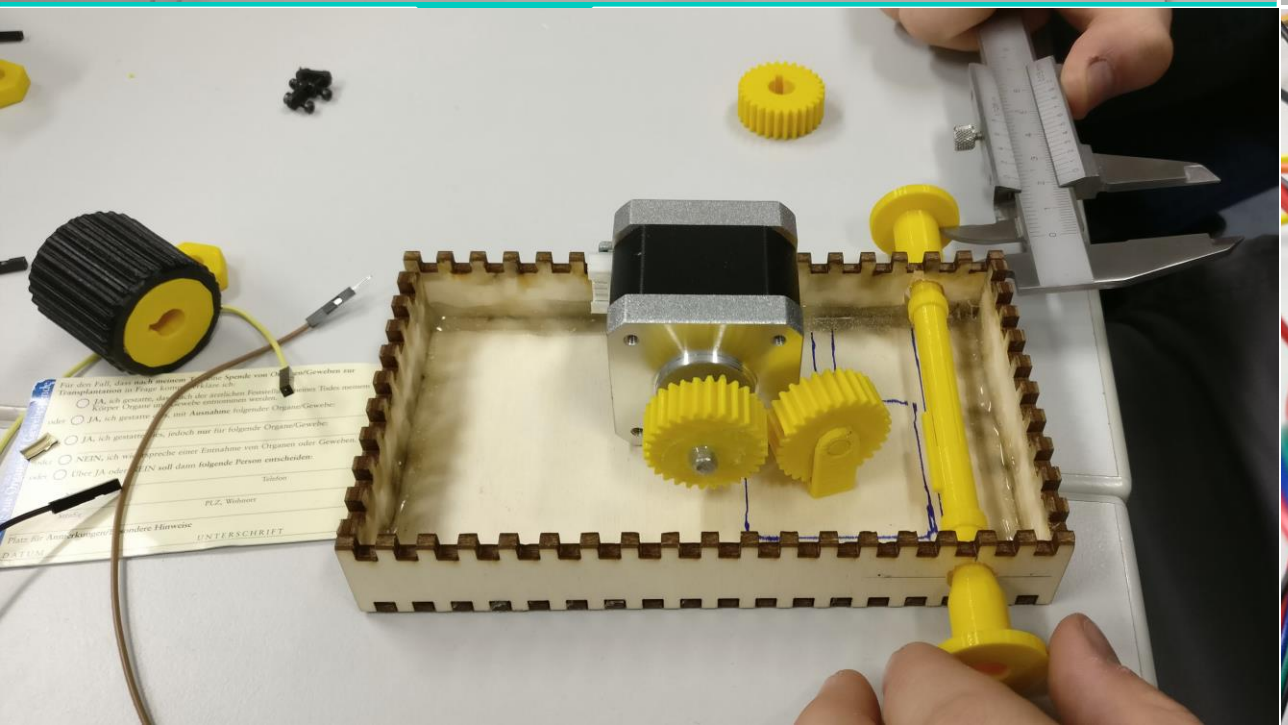


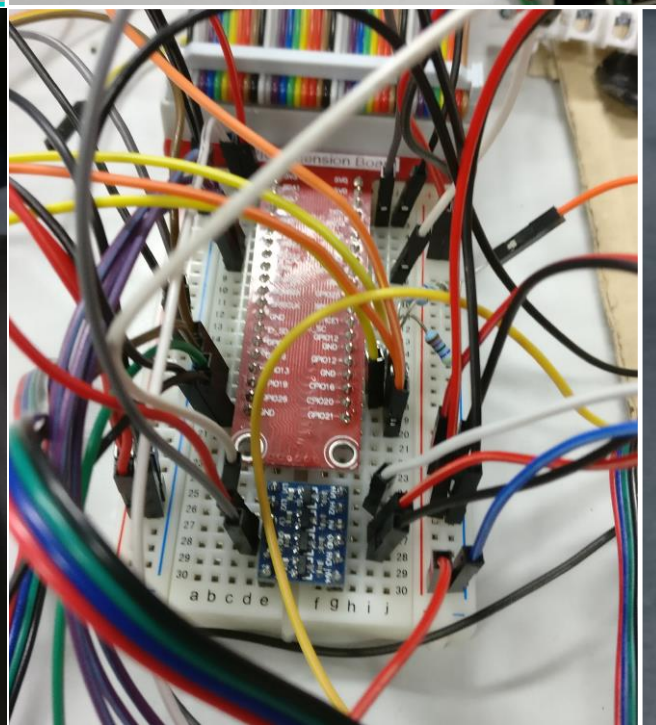
Building the car – Impressions






GET ALYNED





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