neuland:::
Büro für Informatik

NF Nägele
Feinwerktechnik

HACKERSPACE
BREMEN E.V.

STEBA
Funktionsmodellbau

RoboCup

RoboCup

- Internationaler Robotik Wettbewerb
  - Soccer
  - Rescue
  - @Home

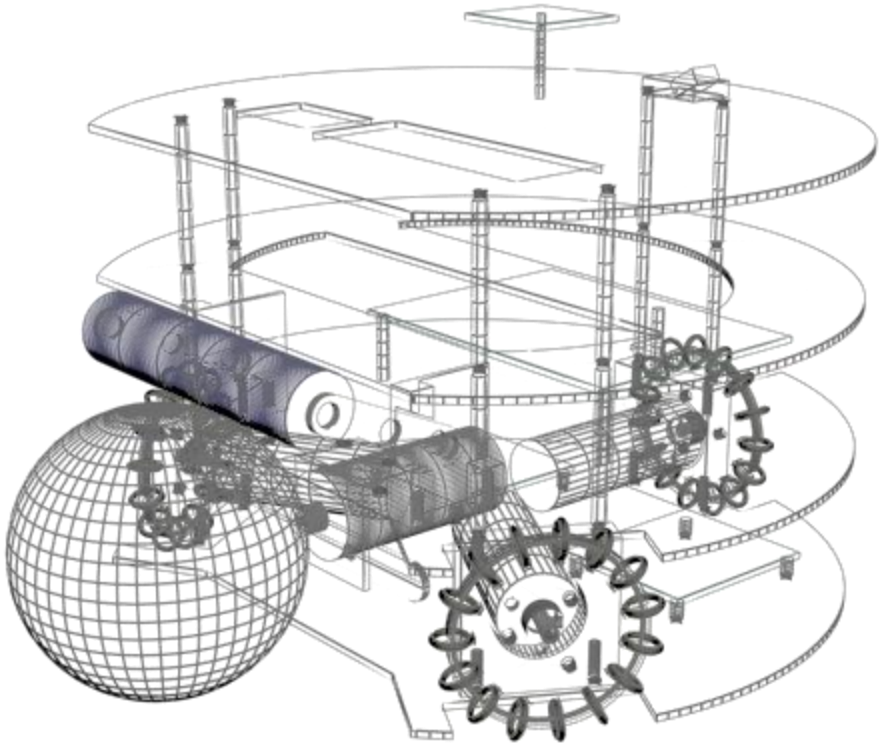
- RoboCup-Junior -> Schülerwettbewerb
  - Soccer
  - Rescue
  - Dance

RoboSoccer

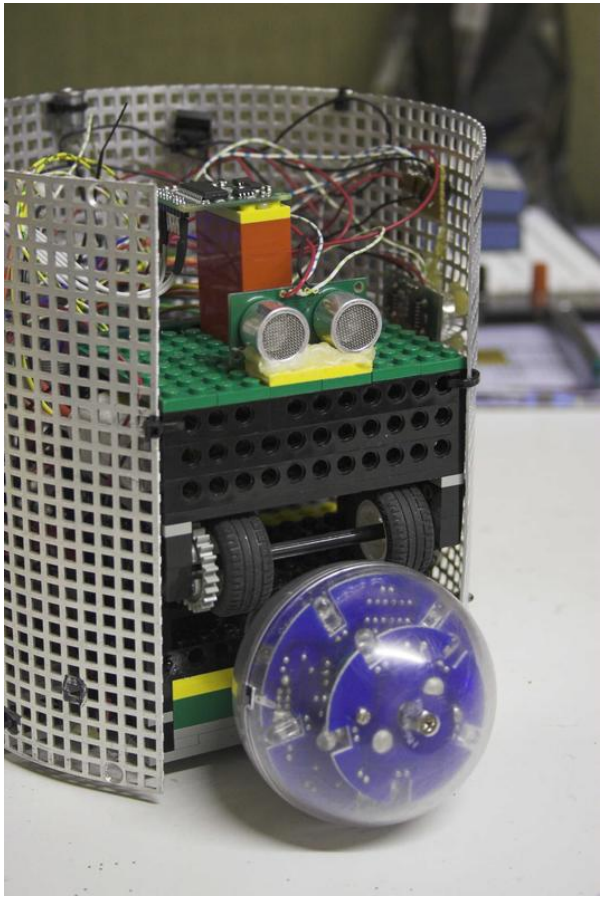
- Verschiedene Klassen
  - Formfaktor
  - Spielfeld
  - Spieleranzahl

- 2050 den amtierenden menschlichen Fußballweltmeister besiegen

brainfuck robots

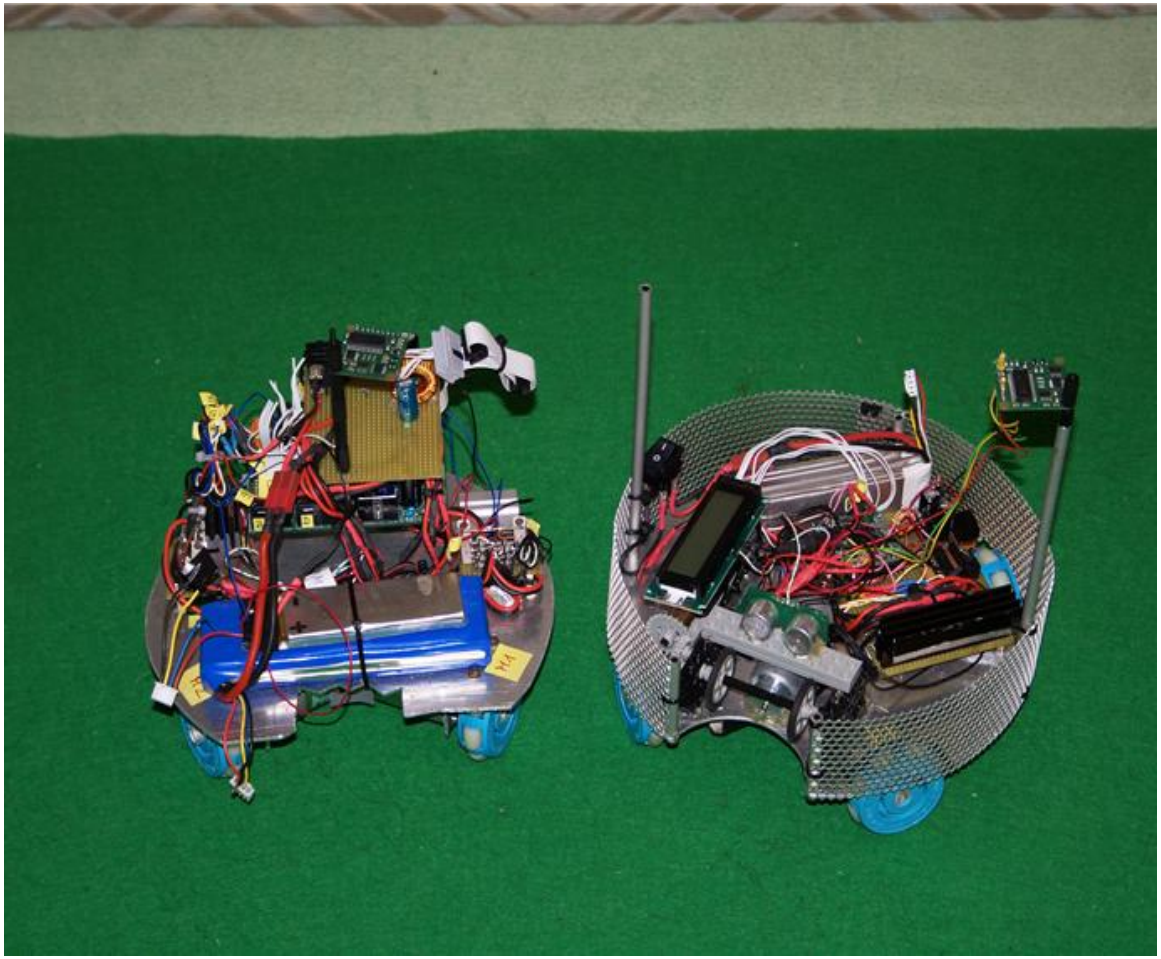


brainfuck robots



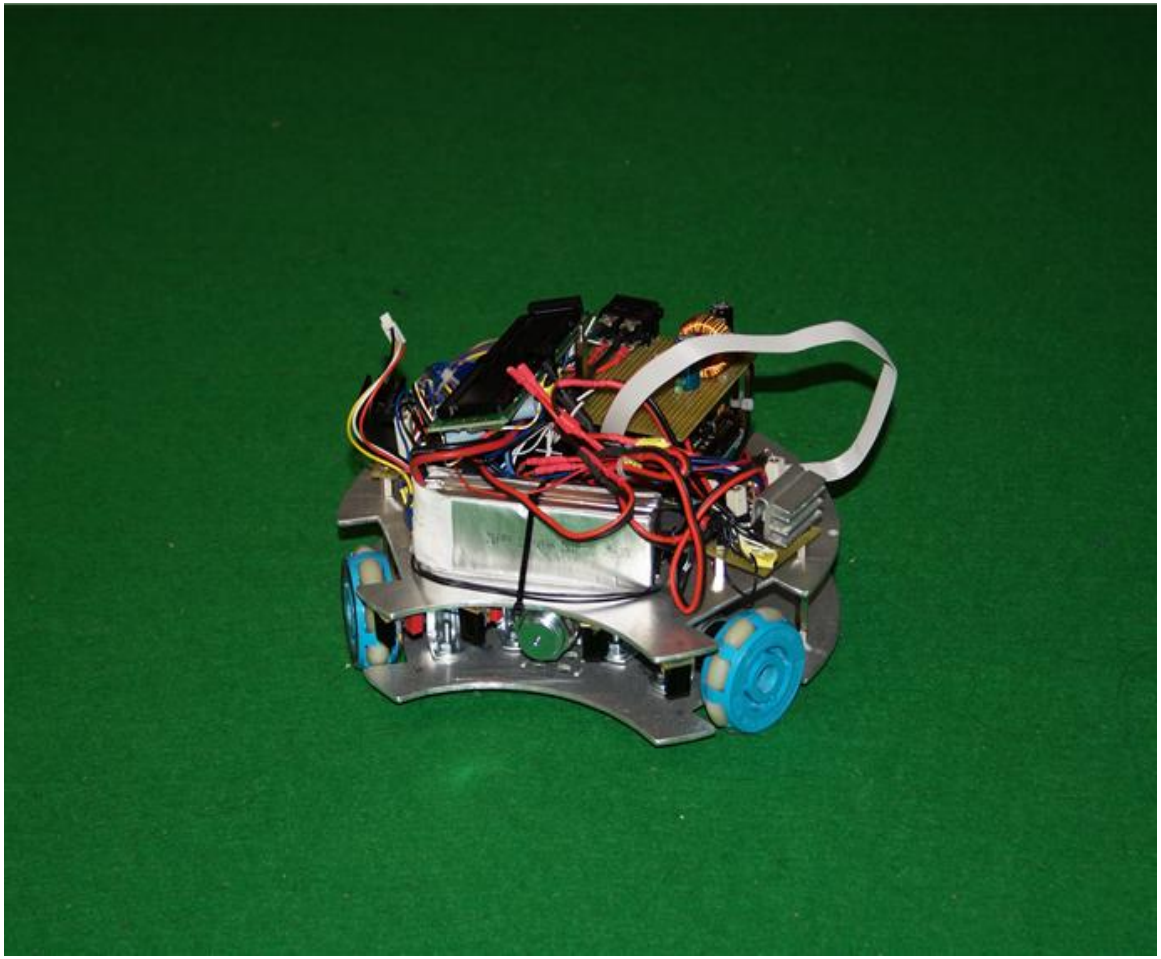
2009

brainfuck robots



2010

brainfuck robots

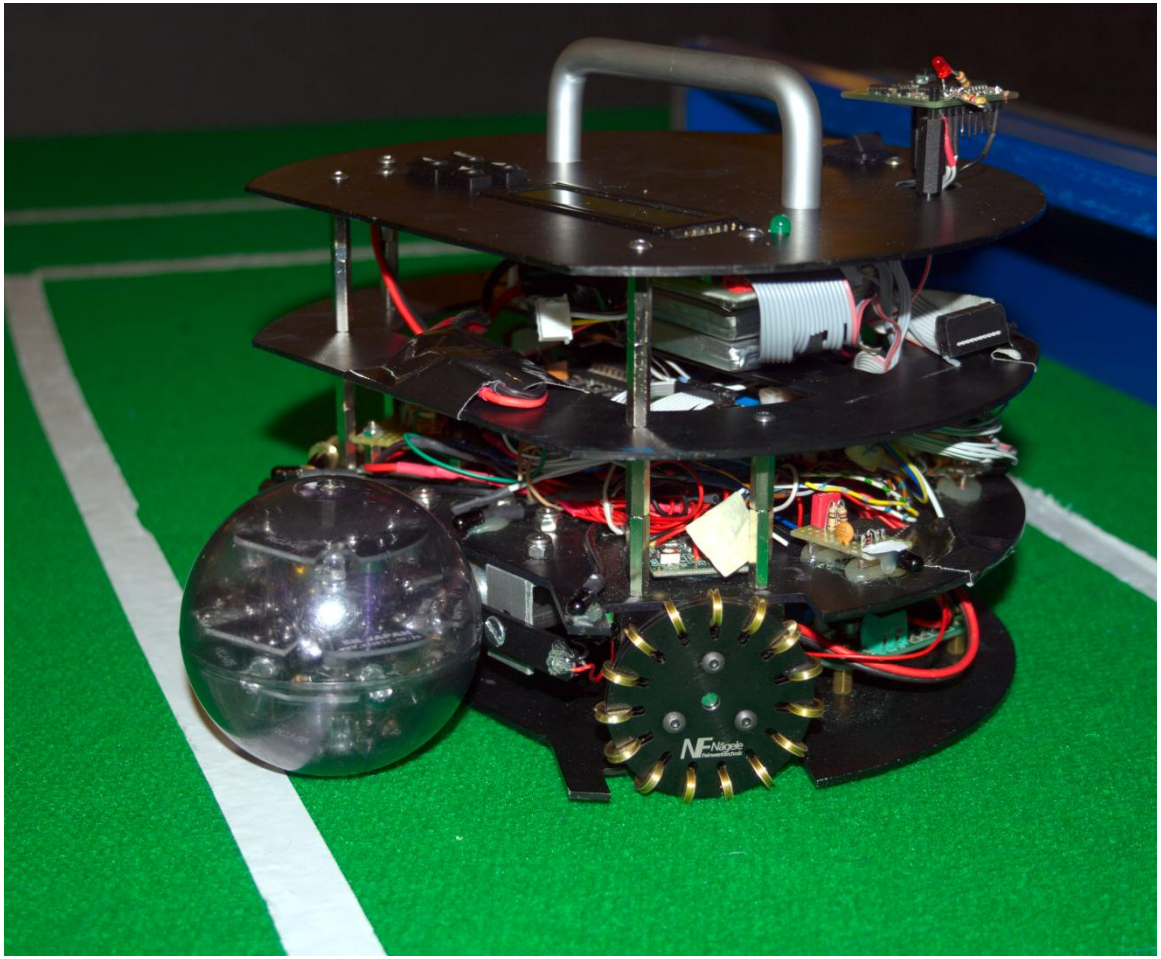


2011

brainfuck robots

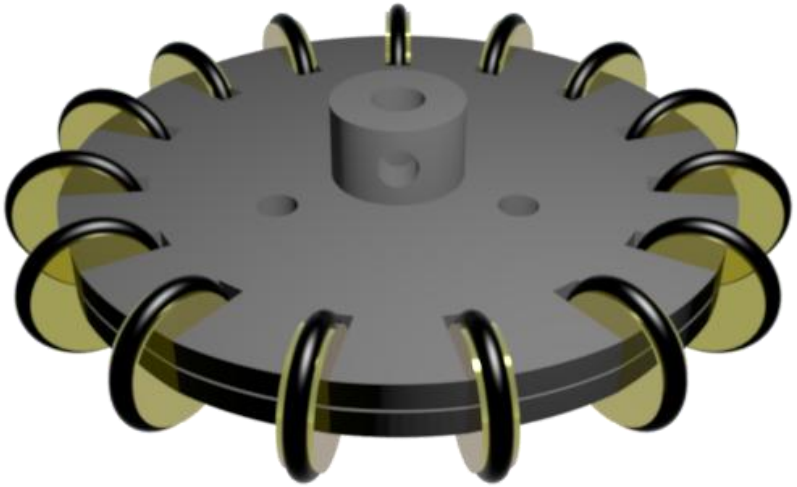
2012

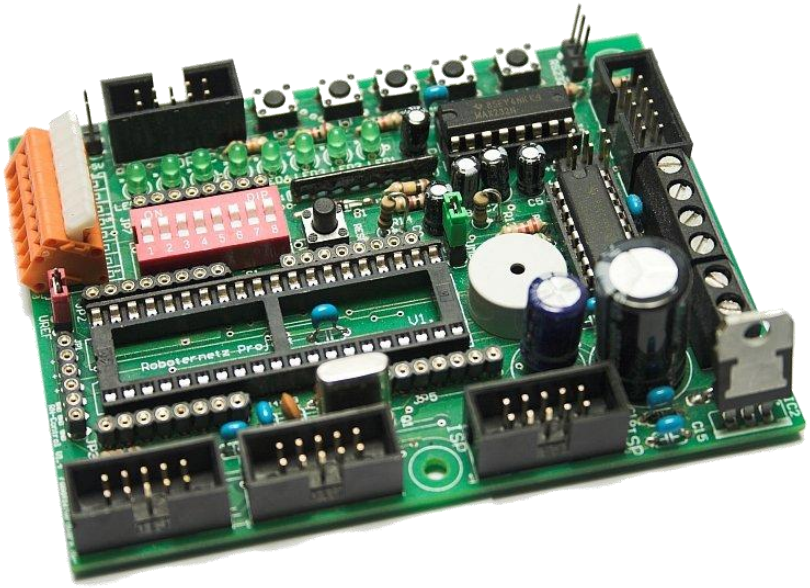
brainfuck robots



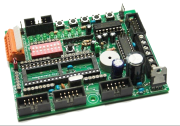
2013

brainfuck robots





Elektronik



- RN-Control mit ATMega 32 (+ATMega 16)
- 12V LiPo
- Sensoren
  - Infrarot-Sensoren
  - Kompass
  - Ultraschall-Abstandssensoren
  - Lichtschranke

Mechanik

- Faulhaber Motoren 2232
- Faulhaber Getriebe 22E

- Selbstentwickelt
  - Platten
  - Omniwheels
  - Kicker
    - Solenoid Zylinder-Hubmagnet

brainfuck robots

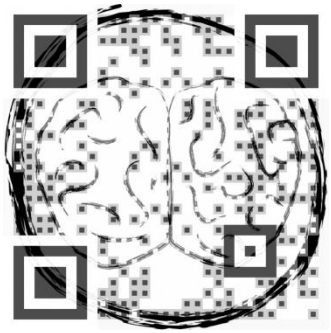
{ C++ }

- C++
- 18 Dateien / 2700 Zeilen

- Wesentlicher Ablauf

1. Ball finden
2. Fahren zum Ball
3. Torausrichtung und Schuss

brainfuck robots



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