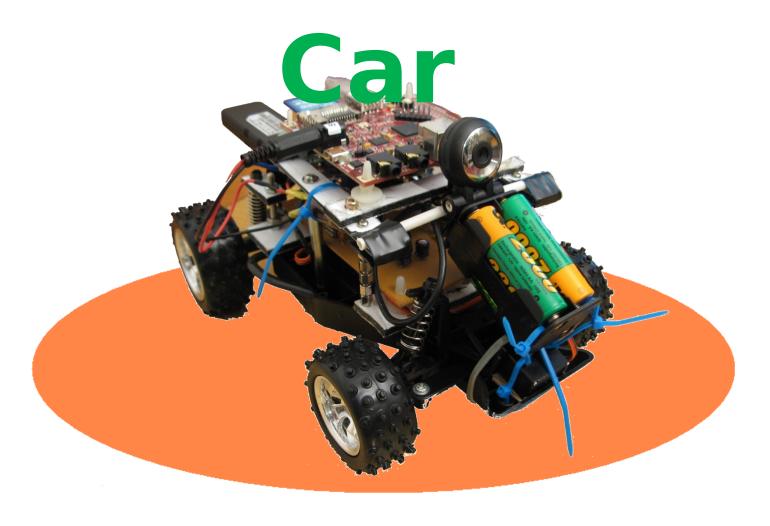
WLAN Controlled



Themen

- Der Motorregler
- Beagleboard
- Das Fahrzeug
- Funktionseinheiten
- Software

Der Motorregler

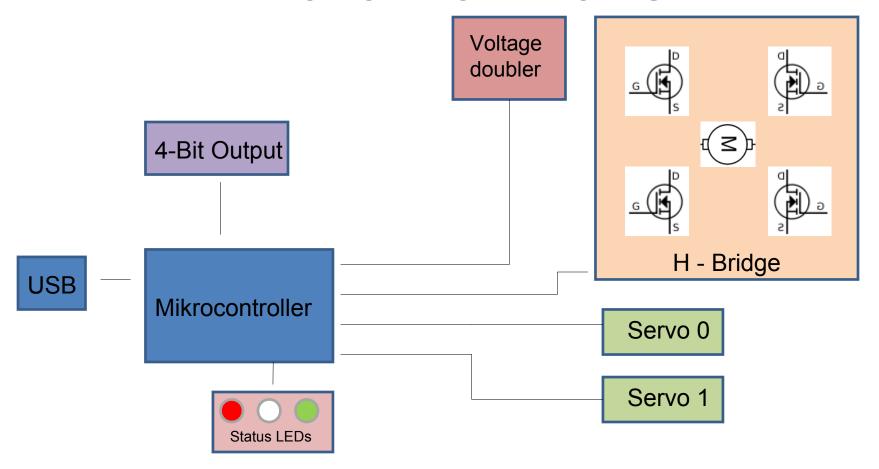


Der Motorregler

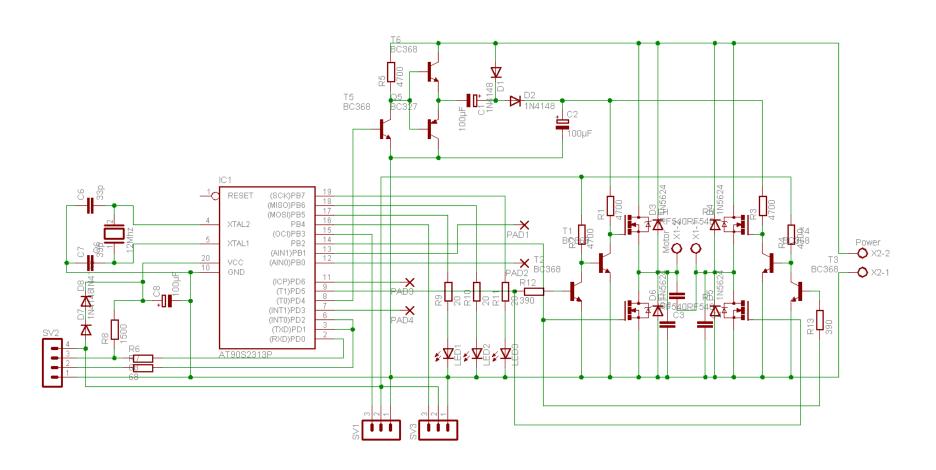
Features

- -USB Interface
 - -Regelung DC Motor in +-256 Schritten
 - -Ansteuerung von 2 Servos
 - -4 Schaltausgänge
 - -3x Status LEDs

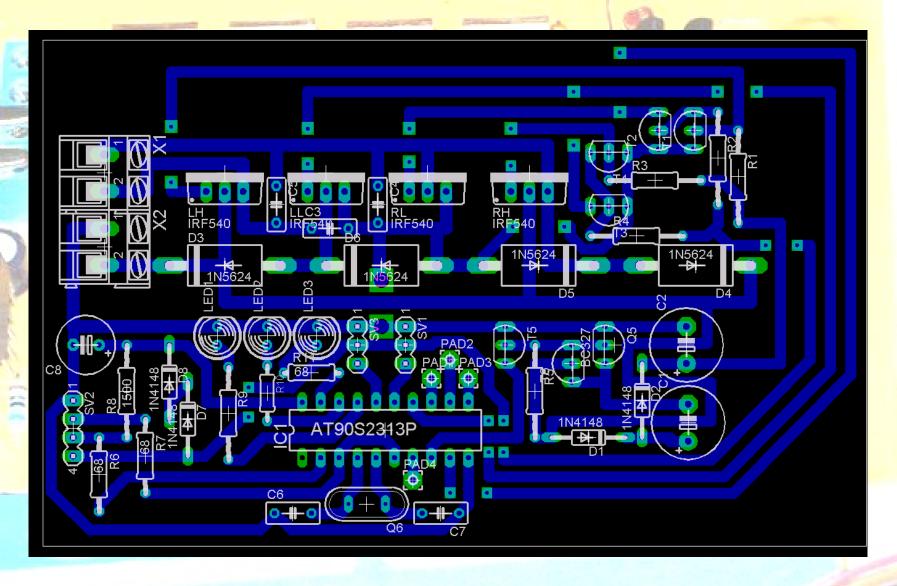
Blockschaltbild Motorkontroller



Schaltplan Motorregler



Layout Motorregler





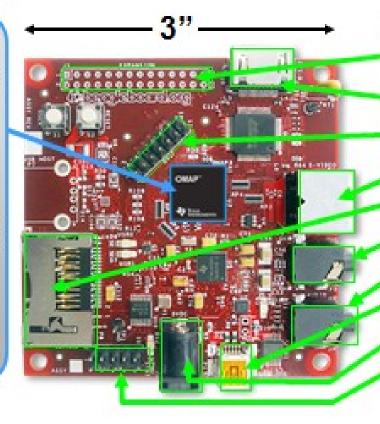
Laptop-like performance

TI OMAP3530

- 600 MHz superscaler ARM® Cortex ™-A8
- More than 1200 Dhrystone MIPS
- Up to 10 Million polygons per sec graphics
- HD video capable C64x+™ DSP core

Memory

- 128MB LPDDR RAM
- 256MB NAND flash

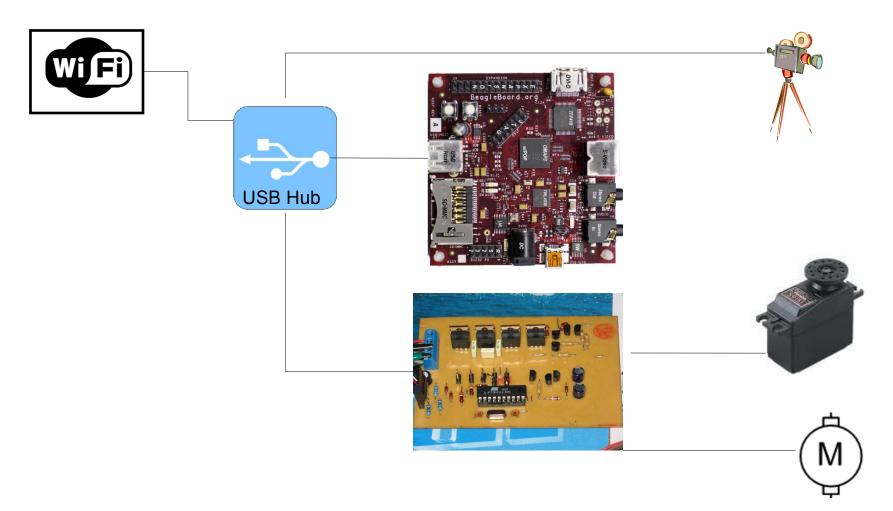


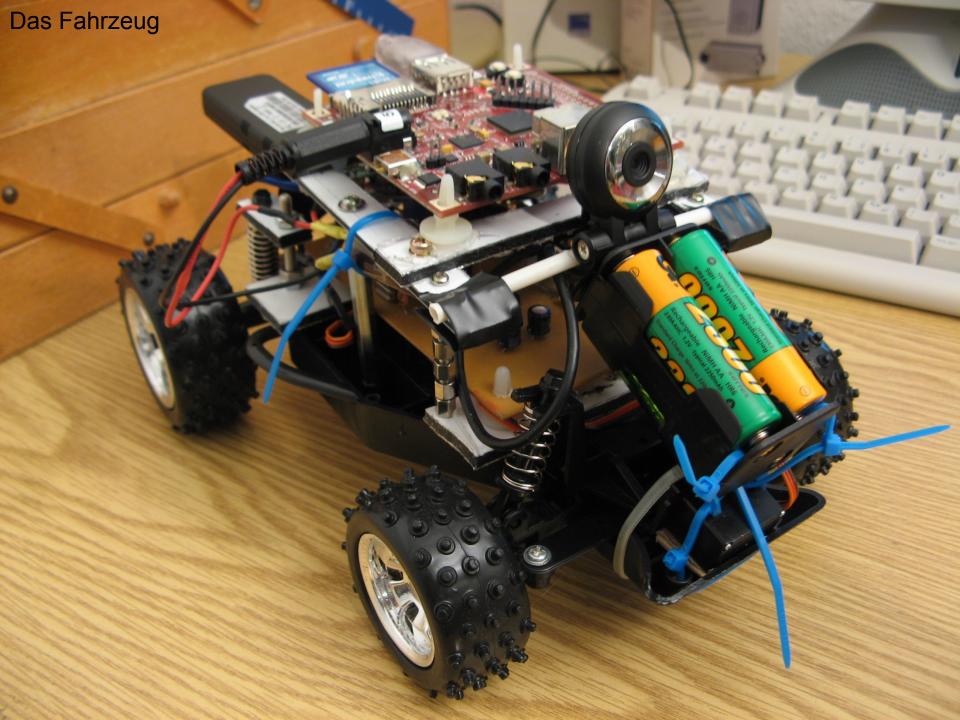
Flexible expansion

- I²C, I²S, SPI, MMC/SD
- DVI-D
- JTAG
- S-Video
- SD/MMC+
- Stereo Out
- Stereo In
- USB 2.0 HS OTG
- Alternate Power
- RS-232 Serial

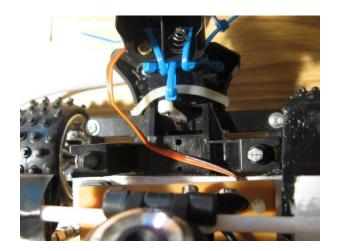


Funktionseinheiten





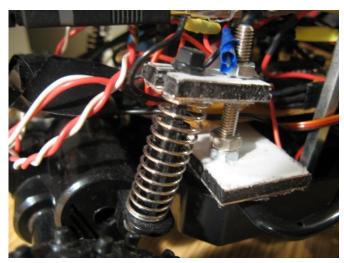
Die Lenkung



Der Motor



Die Federung



Software

CGINAV







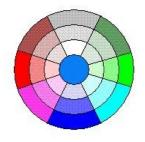


LINUX (2.6.? ARM)

Das Webinterface







- speed = 0
- direction = 180

Optimierungspotential

- -Docking Station
- -Besseres Basisfahrzeug
 - -stärkerer Motor
 - -genauere Lenkung
- -Steuerung per Joystick
- -Flashsprogramm zur Fernsteuerung
- -Beschleunigung der Befehlsübertragung