EDA – Embedded Distance Assistance – Architektur

Kontroll-fluss

main.c
  main_init()
  main_loop()

menu.c

Test Interface

Applikations-logik

Visuelles Feedback

state.c

Regelschleife – Motorkontrolle

samples.c ↔ motion.c

Software-treiber

led.c | matrix.c | ultrasonic.c | clock.c | drive.c | serial.c

Embedded Board

Arduino Due							
MCU Atmel SAM3X8E ARM Cortex-M3						LED	...
Pwr Mgmt Ctlr PMC	Parallel I/O PIO	Timer / Counter TC	Two-Wire Interface TWI (I2C)	Uni S/Async Rx/Tx USART	Pulse Width Mod PWM	NestedVct IRQ-Ctlr NVIC	...

Sensoren Aktoren

TC / Ultraschallsensor | I2C / 8x8 Display | PWM / Drive