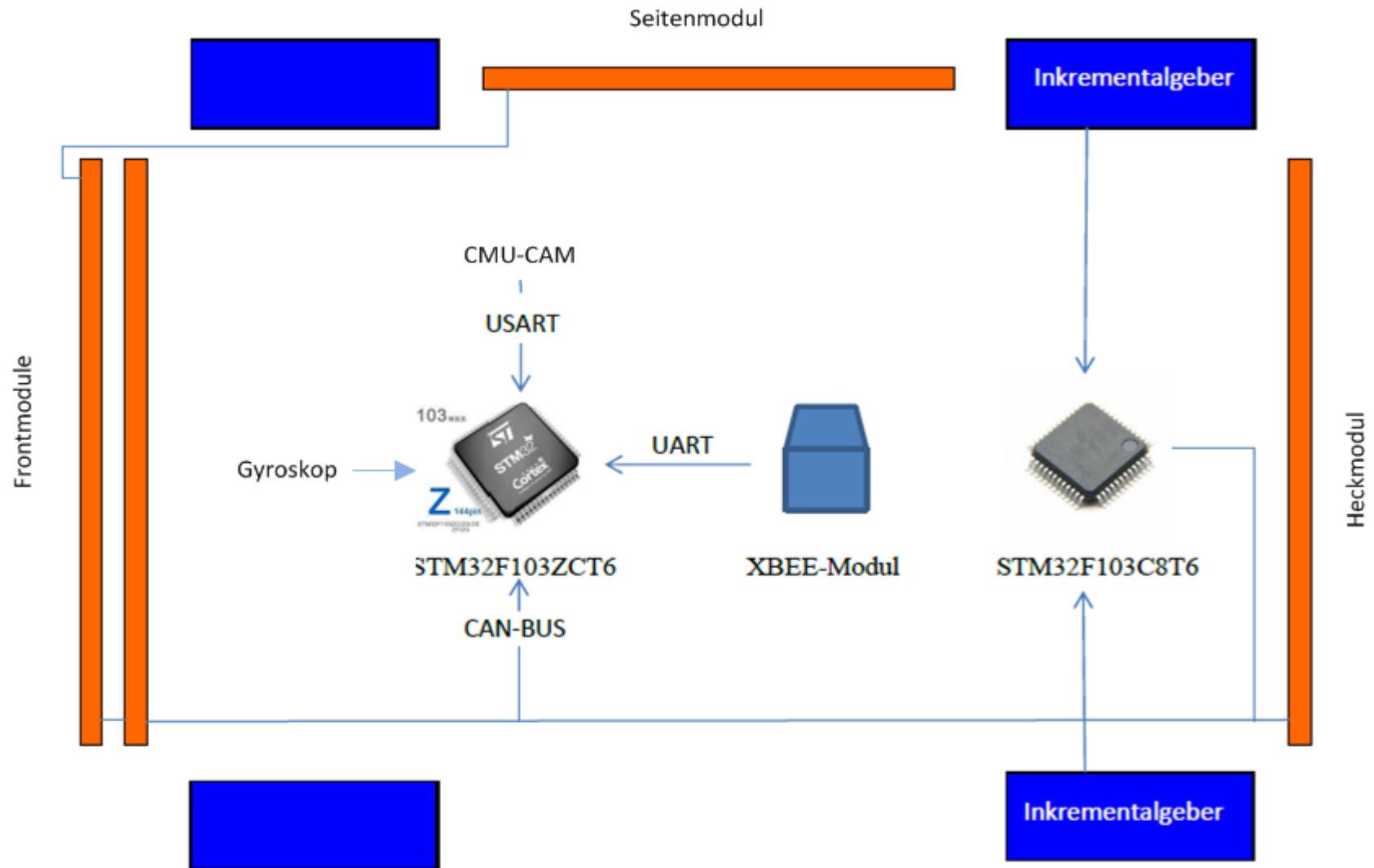
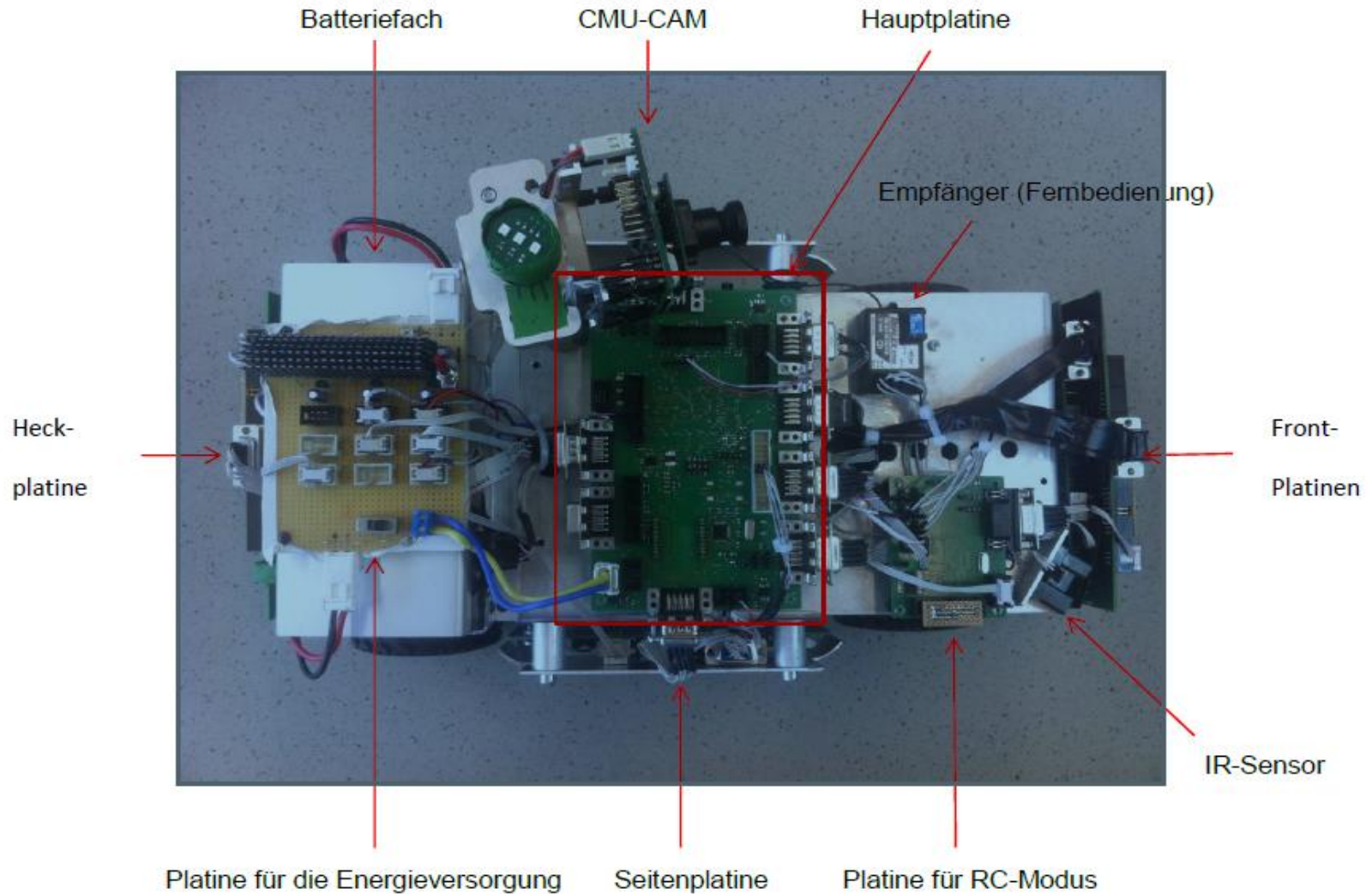
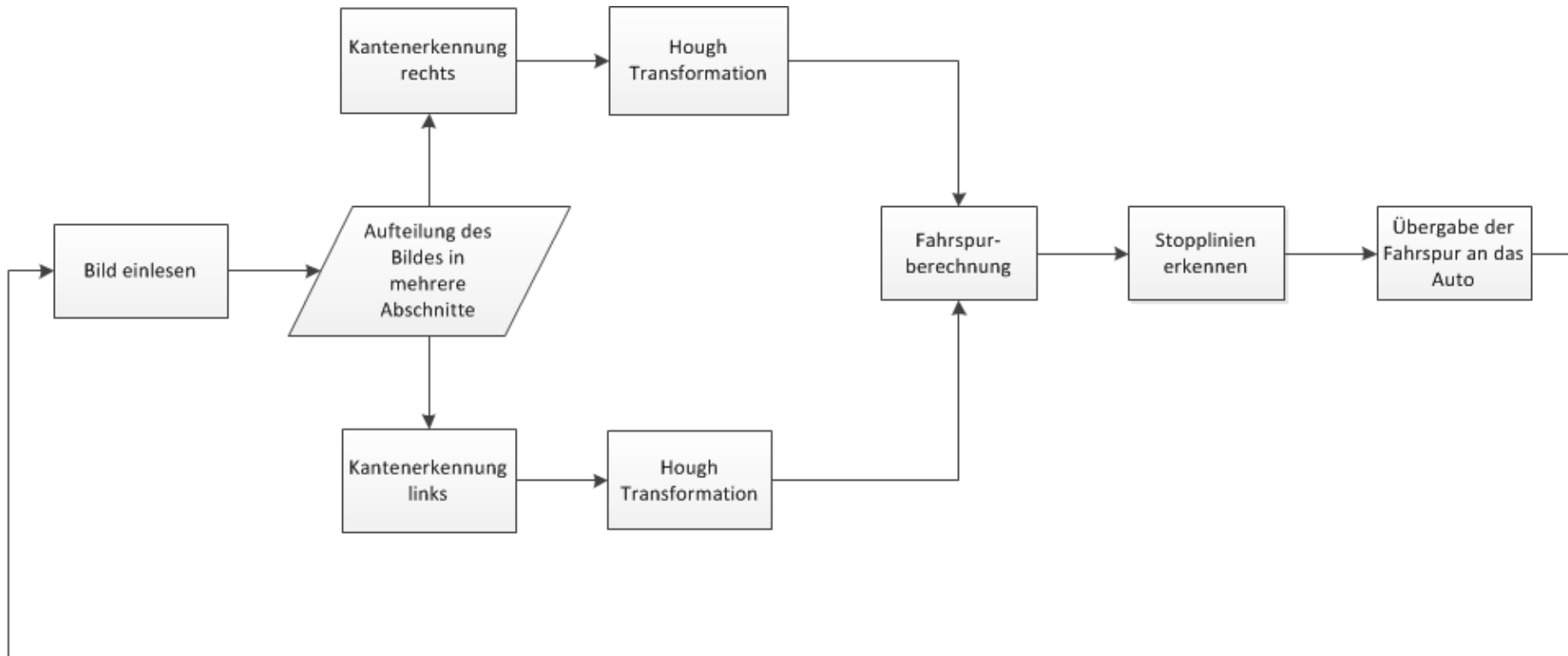


THM Carolo Cup 2013

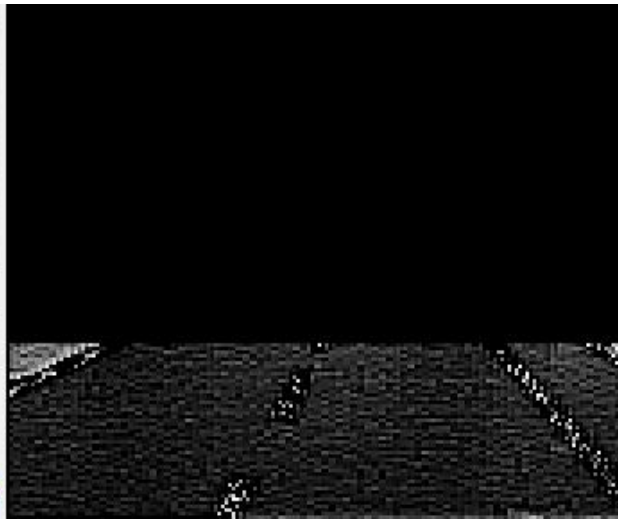
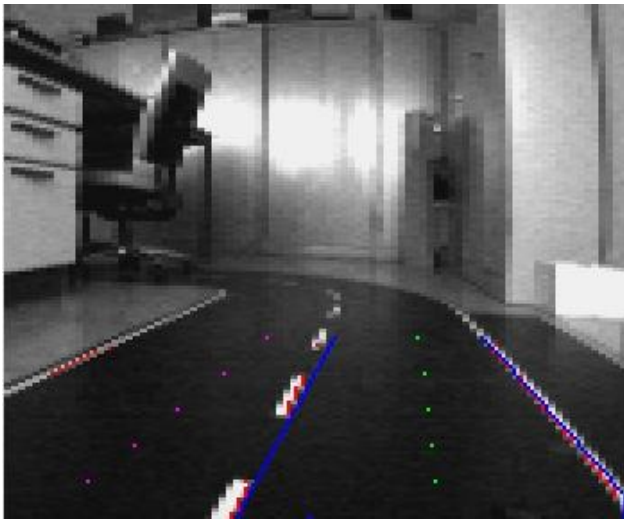
1. Grundidee
2. Hardwarearchitektur
3. Hauptplatine
4. Kameraverarbeitung
5. Regelung
6. Fahren auf der Straße
7. Einparken
8. Fahren mit Hindernissen
9. Energiebilanz
10. Herstellkosten

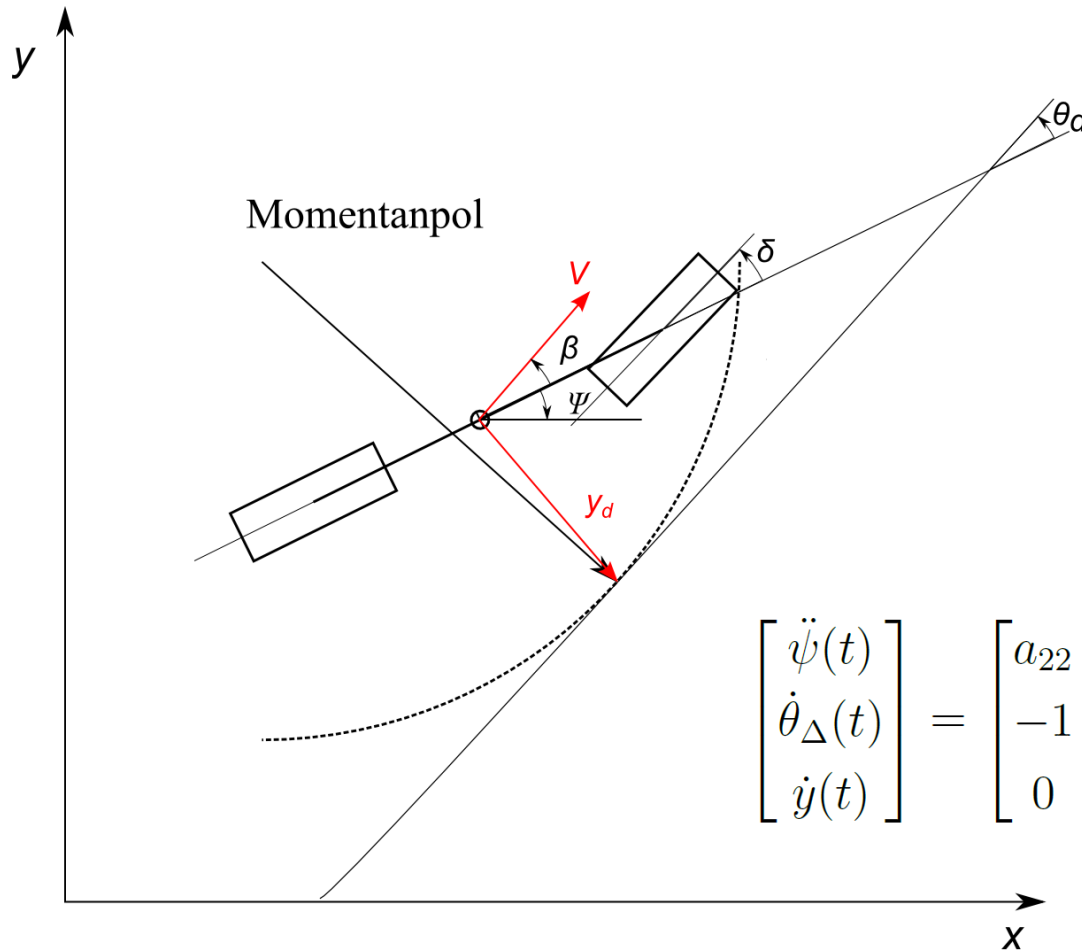






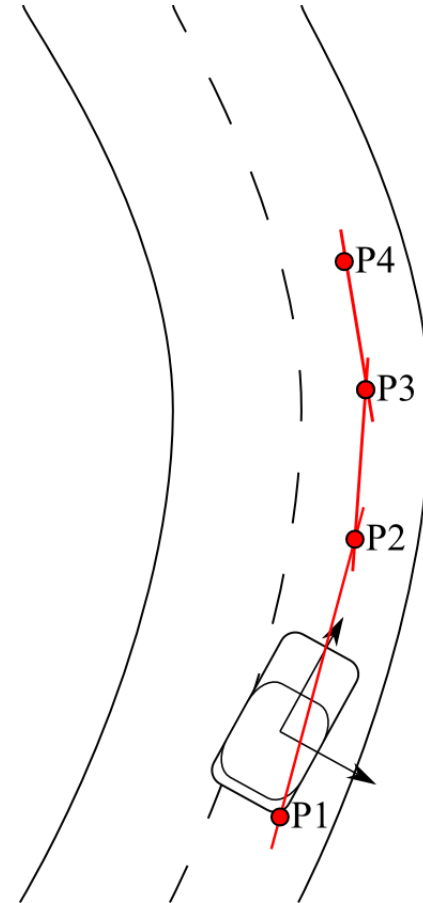
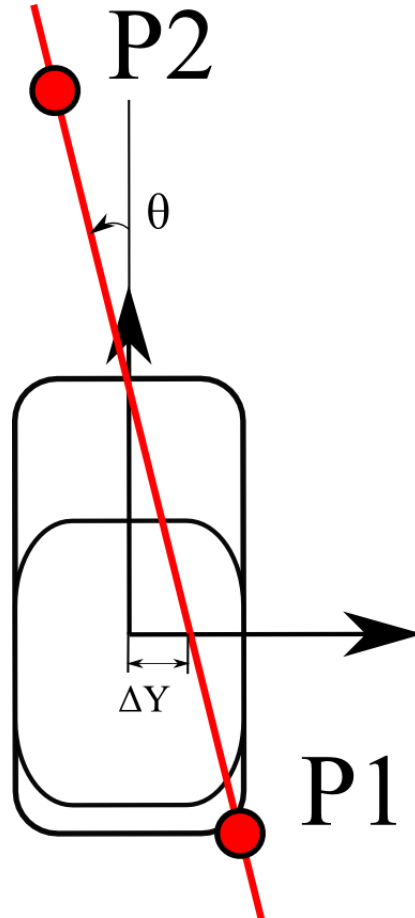
Kameraverarbeitung



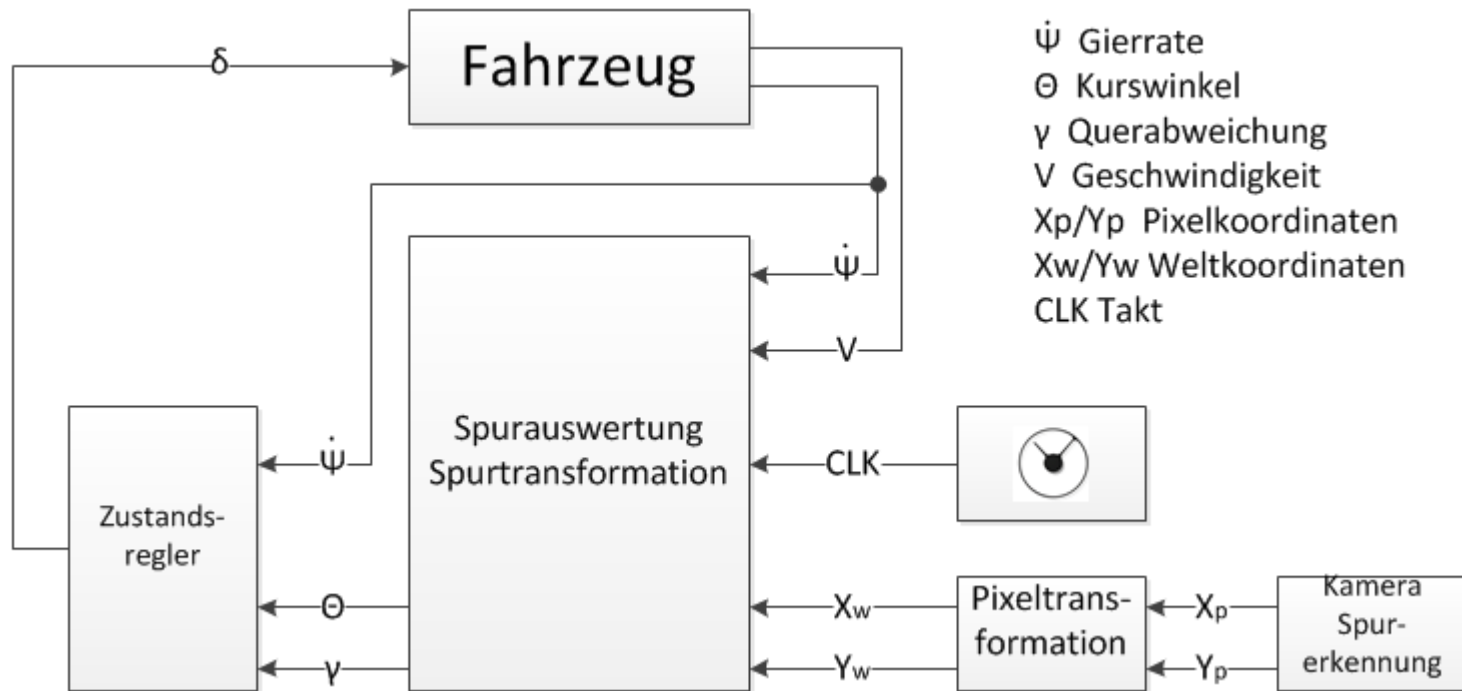


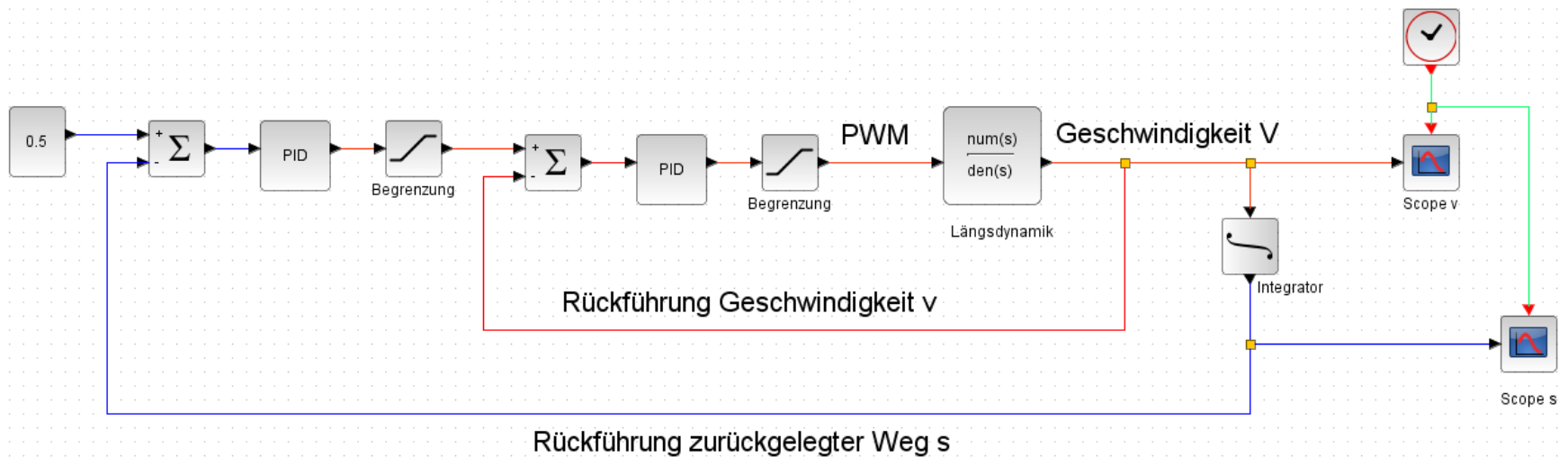
$$\begin{bmatrix} \ddot{\psi}(t) \\ \dot{\theta}_{\Delta}(t) \\ \dot{y}(t) \end{bmatrix} = \begin{bmatrix} a_{22} & 0 & 0 \\ -1 & 0 & 0 \\ 0 & V & 0 \end{bmatrix} \cdot \begin{bmatrix} \dot{\psi}(t) \\ \theta_{\Delta}(t) \\ y(t) \end{bmatrix} + \begin{bmatrix} b_2 \\ 0 \\ 0 \end{bmatrix} \cdot \delta(t)$$

Kurswinkel & Querabweichung

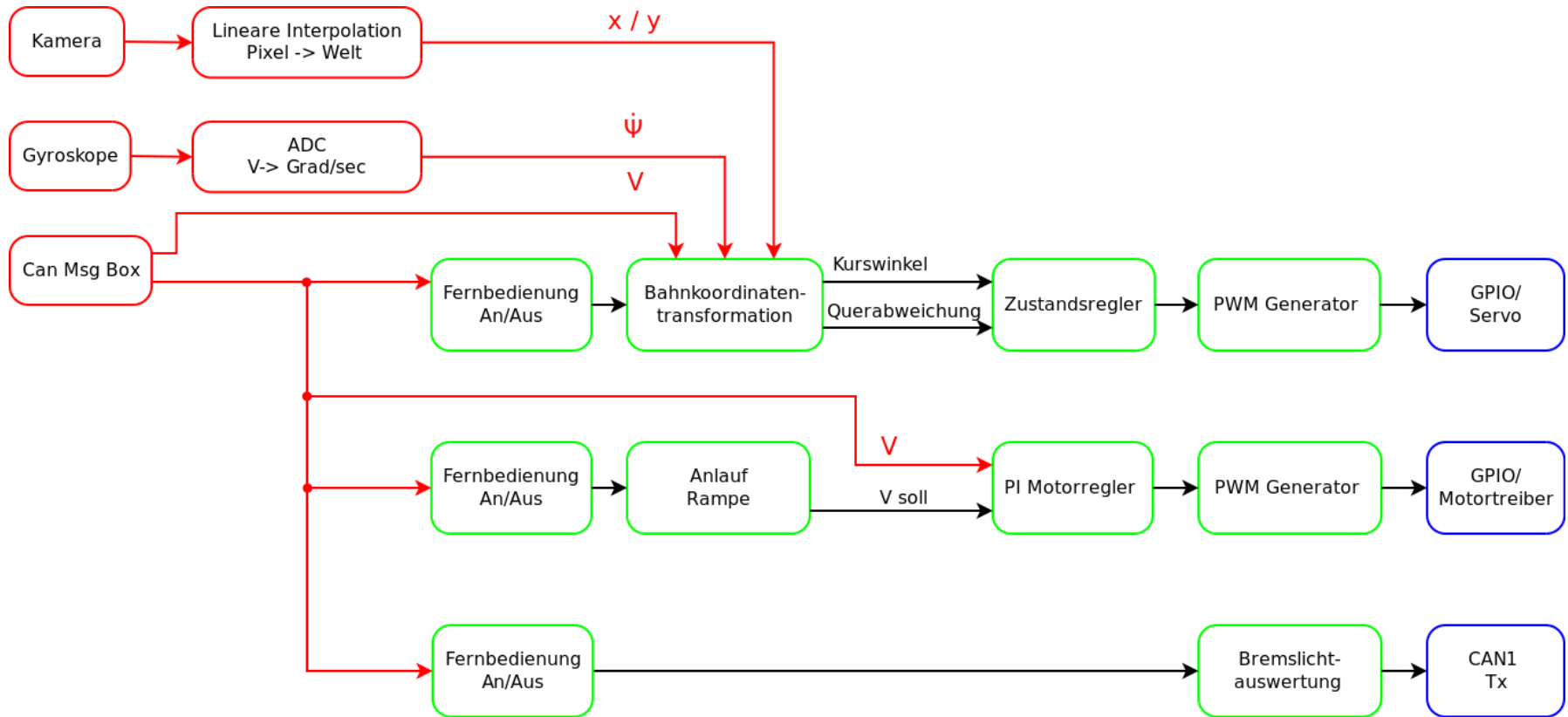


Querregelung

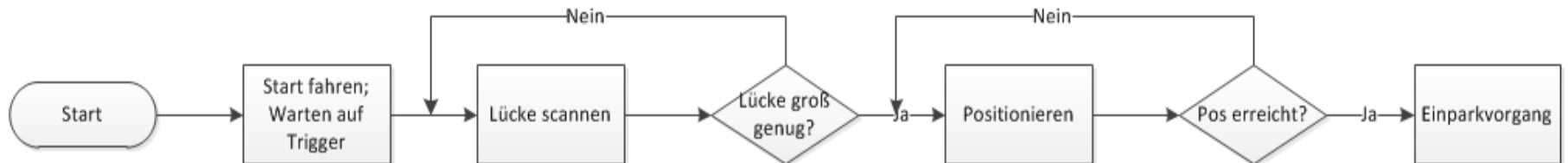
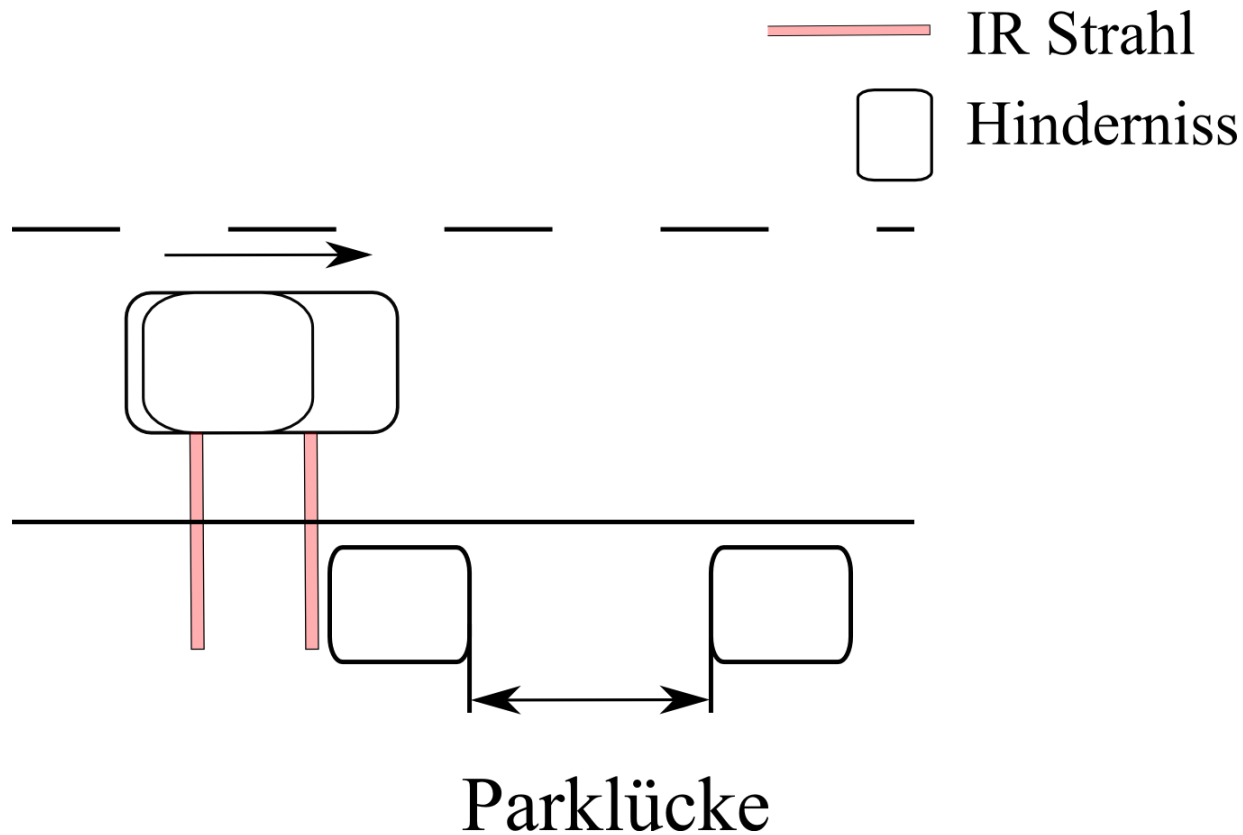




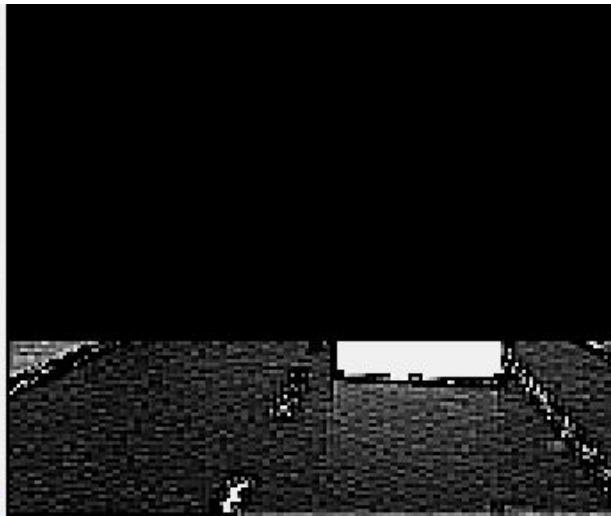
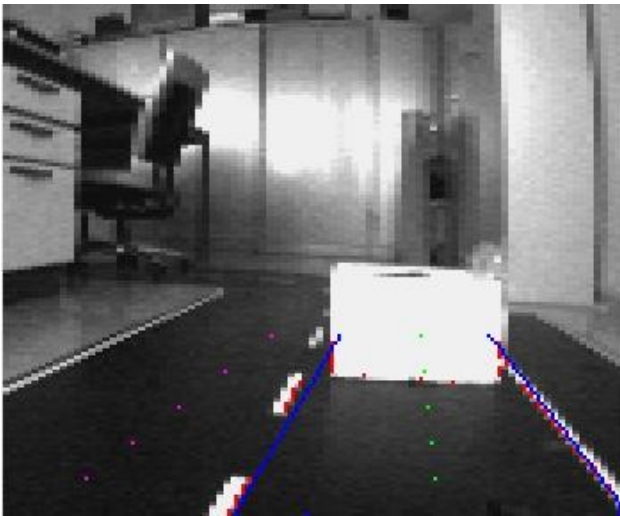
Fahren auf der Straße



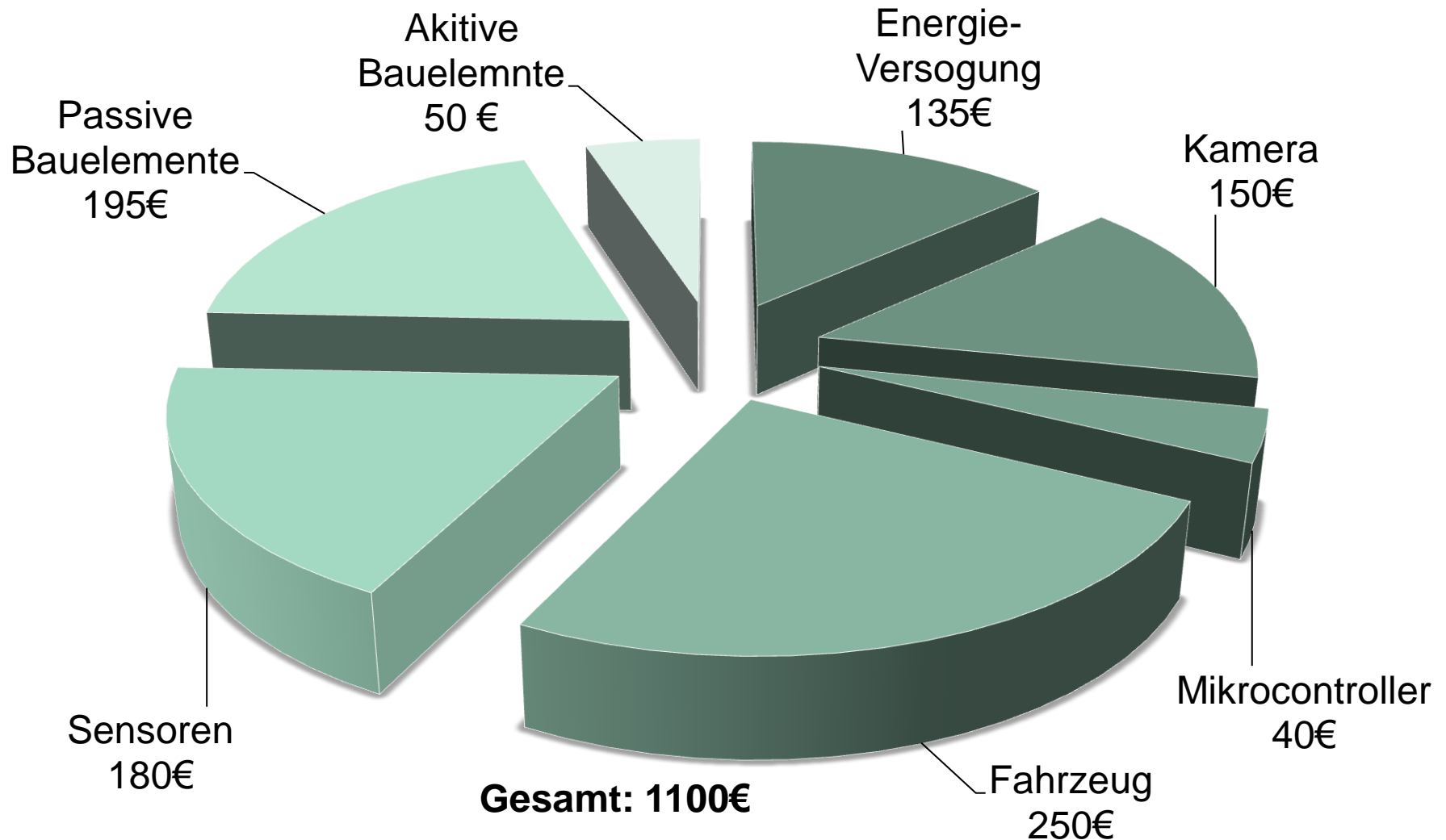
Einparken

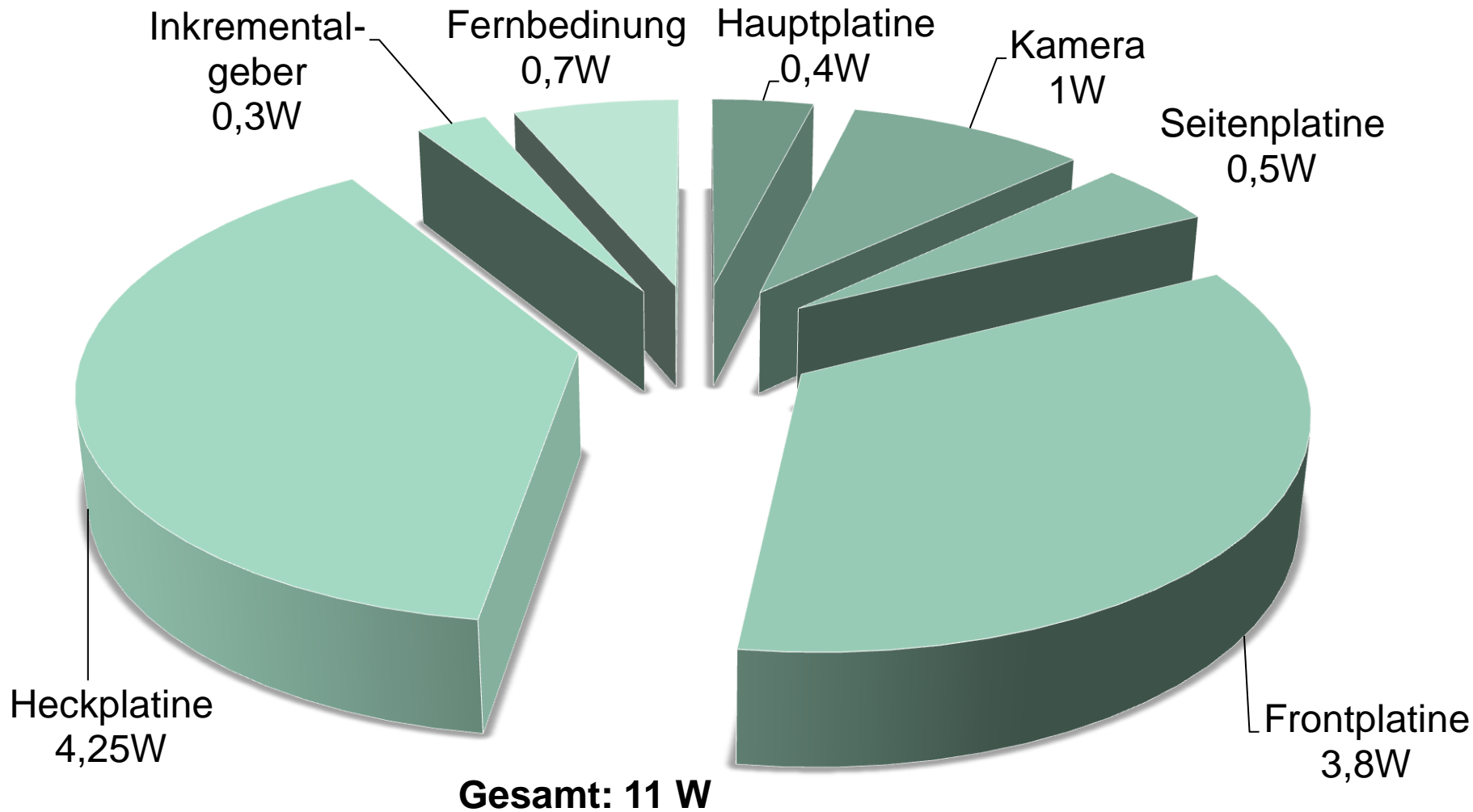


Fahren mit Hindernissen



Herstellungskosten





**Vielen Dank für
Ihre
Aufmerksamkeit**