

Autonomous Driving and Intelligent Vehicle Motion Control by Using Micro Electric Vehicles

CAR-ROBOTICS Technology

- Direct yaw moment control by in-wheel-motors (torque vectoring)
- Adaptive Cruise Control for EV.
- Wheel-spin stabilization
- Active Front Steering Control
- Frontal Obstacle Collision Avoidance by Braking and Steering Manoeuvres
- Pedestrian collision avoidance in intersection
- Lane keeping control by DYC
- Path tracking control based on curb detection
- Rollover prevention by DYC
- Path planning for collision avoidance



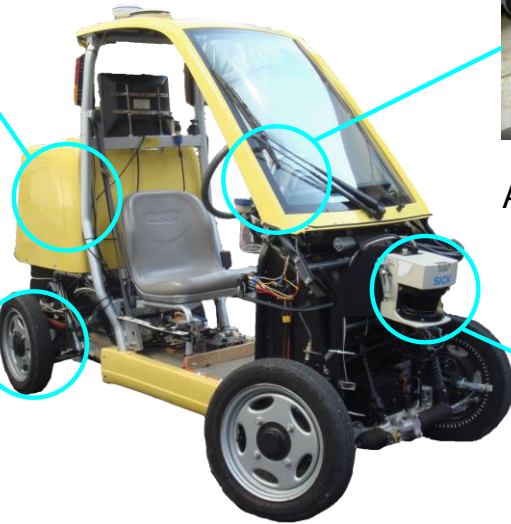
DSP & PC



Steering
AC servo motor



LIDAR



In-wheel motor



Braking

Braking and
Steering