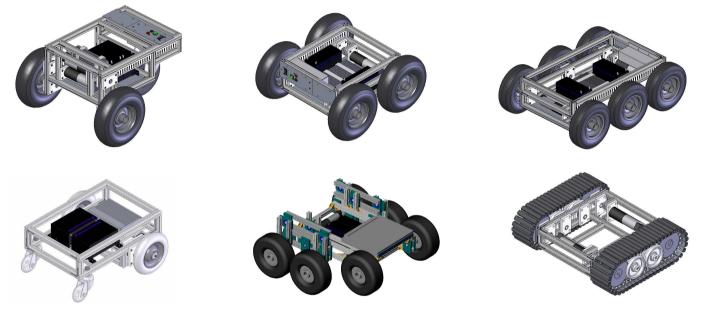
VolksBot[®] Construction kit for physical Rapid Prototyping of mobile Robots





VolksBot[®] RT

Development of a construction-kit for indoor and rough terrain and high payload



Scalable variants by use of common components



Robot Prototyping with VolksBot® RT

Extension of the VolksBot robot construction kit with a new steering unit: Rapid-Prototyping of a VolksBot with an Ackermann steering unit





VolksBot® Indoor: Prototyping Service Robots

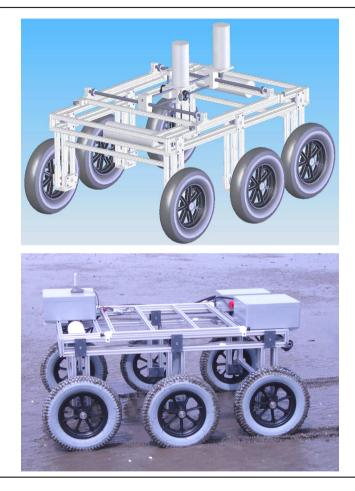
- VolksBot Indoor serves as base platform
- Extension for RoboCup@Home Service Robot Competitions
- Integration of actors and sensors as Laserscanner, Stereo Camera,
 5 dof Manipulator etc.
- World Champion in the RoboCup@Home Competition 2009 based on VolksBot ("Johnny" of Hochschule Bonn-Rhein-Sieg)
- Integration of new components (Dynamaid from Univ. Bonn, Innovation award winner in the RoboCup@Home competition 2009)





MarBot – Autonomous Underwater Robot

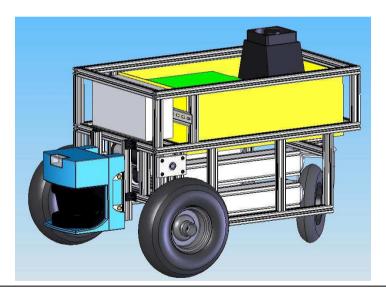
- Based on VolksBot RT concept
- Autononomous sea bed analysis with a 3 DOF Manipulator
- (Semi-)Autonomous Navigation with GPS
- Developed in cooperation with the Alfred Wegener Institute for Polar and Marine reseach





BrennBot – A Fuel Cell powered VolksBot

- Designed in cooperation with Fraunhofer ISE
- Development of an inspection robot with a fuel cell as energy source
- Robot operation times: up to 24h

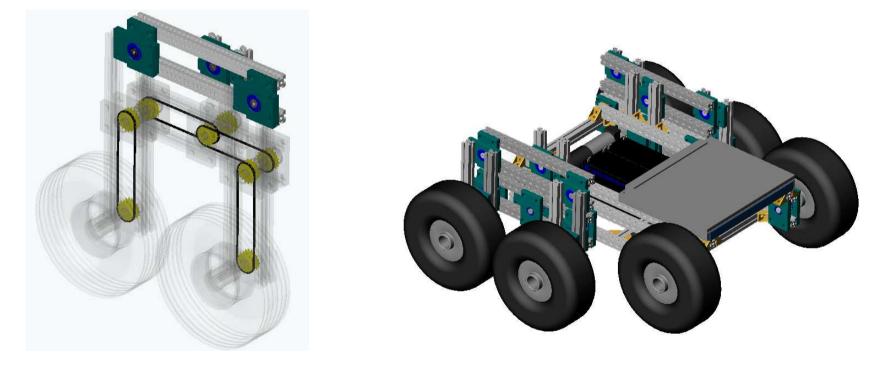






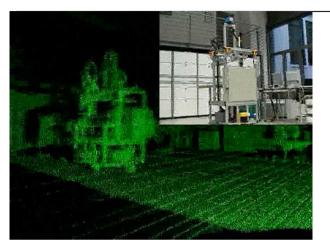
VolksBot® XT – Increasing Mobility

Use of VolksBot RT components to build a variant for eXtreme Terrain: stair-climbing robot





VolksBot® with 3D-Laserscanner





- 3 DLS mounted on VolksBot RT6
- Swivelling or continuously rotating 3DLS
- Scanning in 2D or 3D
- Mobile object-scanning
- Robot-self-localization and obstacleavoidance

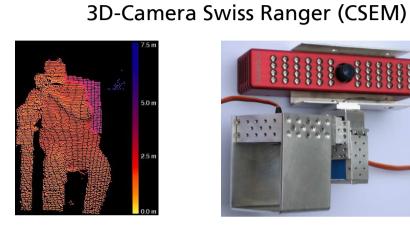




Additional Sensors

Mini-3D-Scanner (Hokuyo)







Swivelling (Infrared-) Camera







www.volksbot.de



