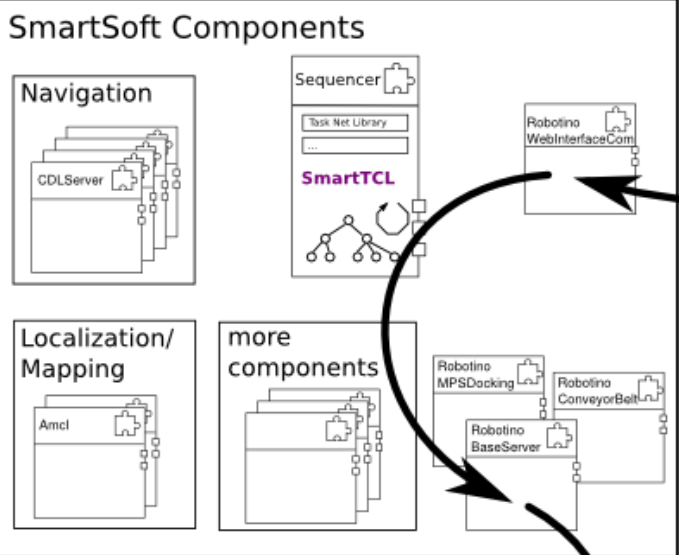




Open Robotino Wiki

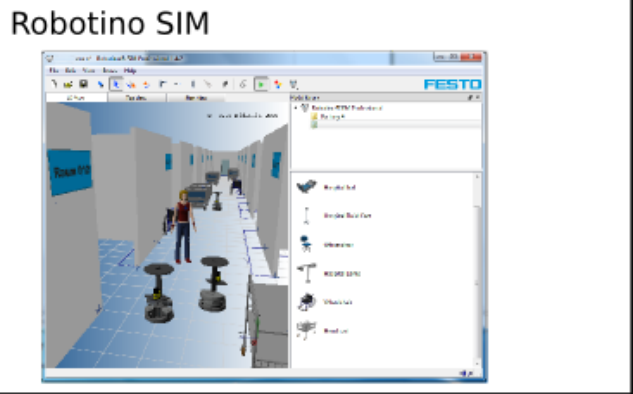


SmartSoft  
SmartMDSD  
(Quick Start)



Robotino API2 C/C++

Robotino rpcd



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M.Sc. Dennis Stampfer

- A **structured approach** (separation of roles) to manage software efforts and system complexity in building your real world robotic applications  
(The SmartSoft Approach)
- An **integrated toolchain** (model driven software development) that realizes this approach and supports your system development  
(The SmartMDSD Toolchain)
- A **set of reusable software components** for localisation, navigation, mobile manipulation, task coordination, human robot interaction, object recognition and many more for immediate reuse in your applications  
(Components)



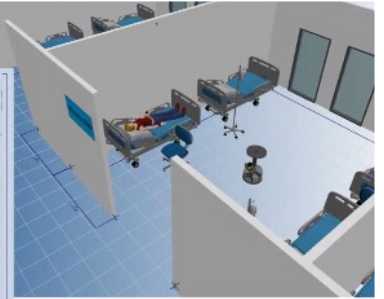
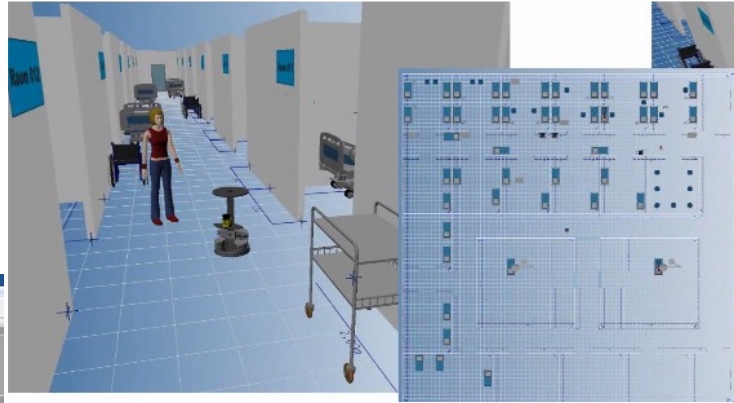
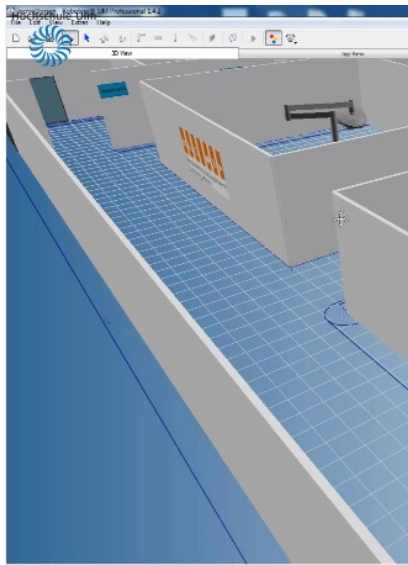
**Service Robotics Ulm**  
autonomous mobile service robots



# SmartSoft **Open Robotino**

## Open Source Integrated Model-Driven Development Environment for Robotics Software

### SmartMDSD



**YouTube  
Robotino**

SmartSoft - DeployserveUKrankenhausSimulation/model/DeployserveUKrankenhausSimulation.di - Eclipse

File Edit Diagram Navigate Search Papyrus Project Run Window Help

Ubuntu 11 B I A Quick Access SmartSoft

Project Explorer Navigator

- CommManipulatorObjects
- CommNavigationObjects
- CommObjectRecognitionObjects
- CommPersonDetectionObjects
- CommPTUObjects
- CommRobotinoObjects
- CommSmartSLAMObjects
- CommSmokeDetectorObjects
- CommSpeechObjects
- CommSymbolicPlannerObjects
- CommTestRepo
- CommTrackingObjects
- CommVisionObjects
- DeployserveUKrankenhausSimulation
  - JRE System Library [JavaSE-1.6]
  - Plug-In Dependencies
  - model
  - META-INF
  - model
    - DeployserveUKrankenhausSimulation
      - src
      - src-gen
      - build.properties
      - DeployUSARSimLocalization
      - DeployUSARSimLocalization-Joystick
      - SmartCdServer
      - SmartGMapping
      - SmartJoystickNavigation
      - SmartJoystickServer
      - SmartJoystickServer
      - SmartMapperGridMap

\*DeployserveUKrankenhausSimulation.di

```

classDiagram
    class SmartSystemConfiguration {
        +SmartLispServer: SmartLispServer [1]
        +webInterfaceEventClient: <Undefined> [1]
        +webInterfaceSendClient: <Undefined> [1]
        +kbQueryClient: <Undefined> [1]
        +baseBatteryEventClient: <Undefined> [1]
        +plannerEventClient: <Undefined> [1]
        +cdGoalEventClient: <Undefined> [1]
        +SmartSimpleKB: SmartSimpleKB [1]
        +kbQuery: <Undefined> [1]
        +SmartWebInterface: SmartWebInterfa...
        +sequencerSendServer: <Undefin...
        +sequencerEventServer: <Undefin...
    }
    class SmartLispServer {
        structure
    }
    class SmartRobotinoBaseServer {
        structure
        +basePositionServer: <Undefined> [1]
        +navigationVelocityServer: <Undefined> [1]
        +batteryEventServer: <Undefined> [1]
    }
    class SmartRobotinoLaserServer {
        structure
        +baseTimedClient: <Undefined> [1]
        +pushNewestServer: <Undefined> [1]
    }
    class SmartPlannerBreadthFirstSearch {
        structure
        +baseStateClient: <Undefin...
        +plannerEventServer: <Undefined> [1]
        +curMapClient: <Undefined> [1]
        +plannerGoalServer: <Undefined> [1]
    }
    class SmartMapperGridMap {
        structure
        +laserClient: <Undefin...
        +curQueryServer: <Undefined> [1]
    }
    class SmartCdServer {
        structure
        +plannerClient: <Undefined> [1]
        +laserClient: <Undefin...
    }
    class SmartJoystickServer {
        structure
        +joystickServer: <Undefin...
    }
    class SmartJoystickNavigation {
        structure
        +joystickClient: <Undefi...
        +navigationClient: <Undefi...
    }
    class SmartWebInterface {
        structure
        +sequencerSendServer: <Undefin...
        +sequencerEventServer: <Undefin...
    }
    SmartSystemConfiguration -- SmartLispServer
    SmartSystemConfiguration -- SmartRobotinoBaseServer
    SmartSystemConfiguration -- SmartRobotinoLaserServer
    SmartSystemConfiguration -- SmartPlannerBreadthFirstSearch
    SmartSystemConfiguration -- SmartMapperGridMap
    SmartSystemConfiguration -- SmartCdServer
    SmartSystemConfiguration -- SmartJoystickServer
    SmartSystemConfiguration -- SmartJoystickNavigation
    SmartSystemConfiguration -- SmartWebInterface
  
```

SystemConfiguration Deployment

Properties SmartParameterEditor Console Problems

**SmartSystemConfiguration**

Name: SmartSystemConfiguration

Qualified name: DeployserveUKrankenhausSimulation::SmartSystemConfiguration

Is abstract:  true  false

Is active:  true  false

**System Integrator**