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Where innovation starts

#### Content

- Activity model: port-based interaction
- Behavioural model: Task-Skill-Motion
- Structure model: Composition Pattern
- Brief research on the policy



# **Activity model: port-based interaction**

Application

Domain framework

C++, Matlab

SW framework

Qt creator

Operating System

Ubuntu 14.04

HW framework

CPU, bus, storage



#### Behavioural model: Task-Skill-Motion

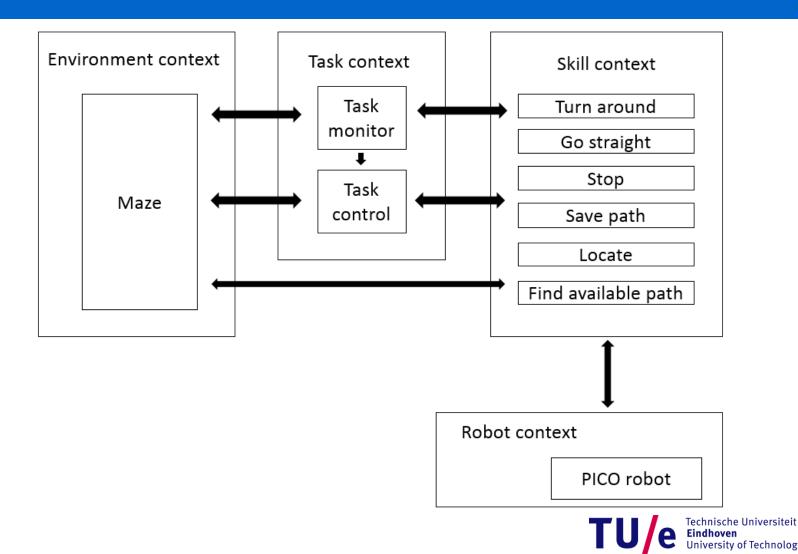
- Behavioural model:
- \* Environment context
- \* Task context
- \* Skill context
- \* Robot context



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### Behavioural model: Task-Skill-Motion



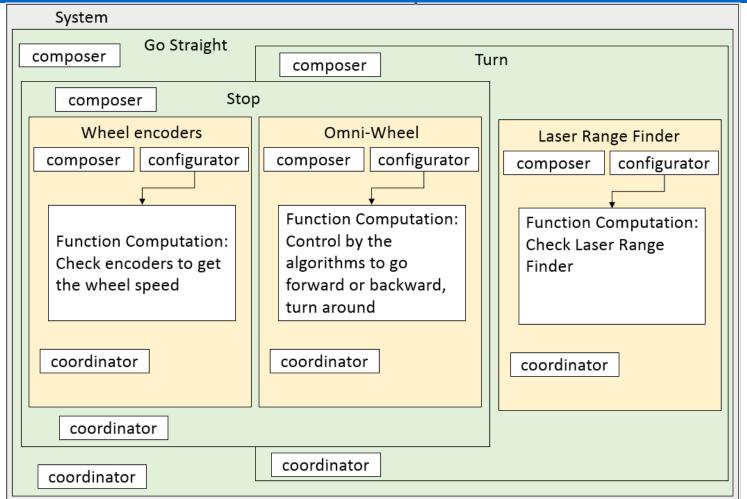
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## Structure model: Composition Pattern

- Context A: base on the hardware, explain the function of the hardware.
- \* Wheel encoders
- \* Omni wheel
- \* Laser range finder
- Context B: Base on the basic function that consist of different hardware function
- \* Go straight
- \* Turn
- \* Stop
- Context C: the whole system

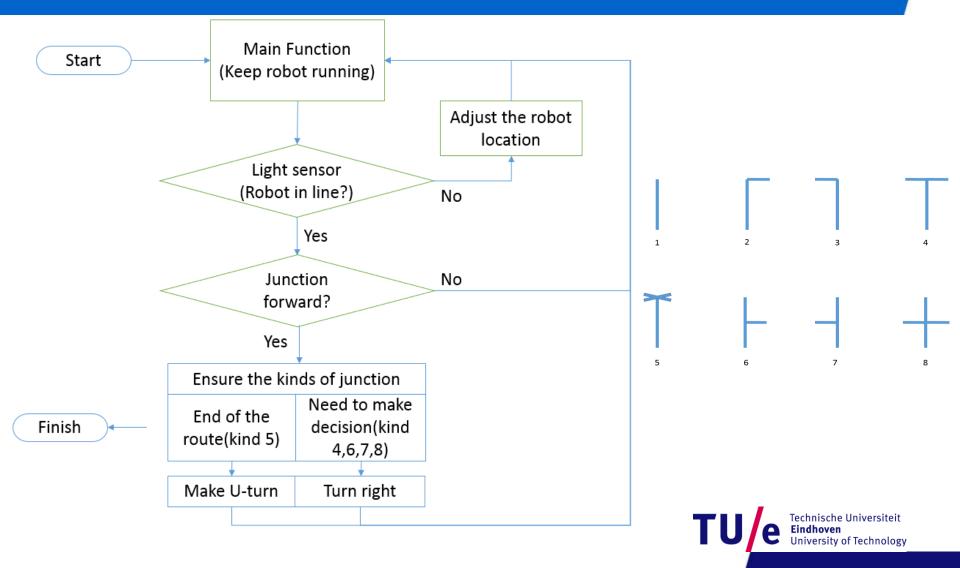


# Structure model: Composition Pattern

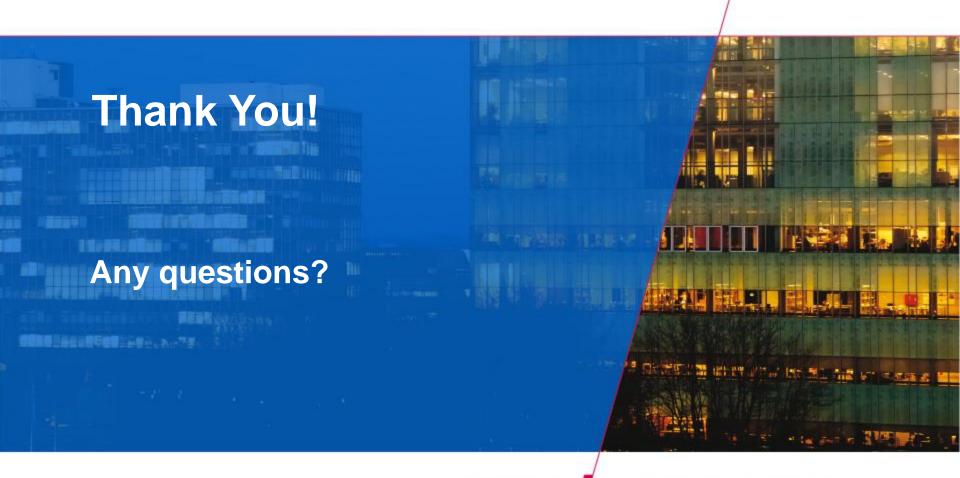


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## Brief research on the policy



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