Prototyping

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Task 1

- Develop a first requirements specification based on the Systems Engineering lecture
  - Deadline: April 15, eob, input for lab on April 16
  - Apply the steps from the lecture
    - Requirement Elicitation
    - Requirement Analysis
    - Requirement Specification
    - Requirement Validation
- Outcome are a SysML requirements diagram and appropriate UML Diagrams if required for the specific steps
- Divide the overall task into separate parts for each team-member in the following way

			Name1		Name2		Name…
#	Task	Short summary	Todo (incl. Deadline)	Done (incl. Finishing date	Todo	Done	…
1	Task1						
2	Task2						
…	Task…						

Output of Task 1

- Rescue robot use case!
  - The concrete scenario the team like to consider
- Analyse of the system context
  - All Stakeholders
  - Relevant regulations
  - Interface to the environment
    - Concrete boundary is clear
  - Relevant environmental entities including the considered environment
  - Relevant constraints are defined
- The documentation is done with SysML / UML
- First version till Friday 16
- Final version April 23

Relevant criteria

- Quality of solution
  - Originality
  - Completeness
  - Integrity
- Usage of methods and techniques
  - Usage of process specific tools like github, trello, …
  - SysML/UML Diagrams like
    - Requirements, Use Cases, Scenarios, Constraints, Block-Diagrams, …