Development of software architecture of a hybrid process chain in aerospace engineering

Current Situation
The production of large-scale parts for aerospace industry leads to special requirements for the process chain, such as traceability and quite new conservation of resources. As part of the project at the Institute for Machine Tools and Industrial Management (iwb) a new hybrid process chain is developed including additive wire and arc manufacturing with a robot and conventional milling.

Objectives
The process chain, including automated robot path planning software, process monitoring via sensors and milling path planning is to be supported and monitored in an encompassing software tool. Therefore as part of the IDP the software architecture is to be developed with SysML and IT-Infrastructure for including all parts of the process chain is to be set up.

Requirements
- You have an Interest in software system architecture (ideally you have first experiences in SysML or UML)
- You are interested in working at connecting mechanical and software engineering, as well as different manufacturing systems within a process chain

If you are interested in the project of have any questions please contact

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