Spesifikasjon av system for å overvåke produksjonsprosesser

The system shall support the monitoring of a factory automation system.

A factory automation system consists of several manufacturing workstations. Each manufacturing workstation has a manufacturing robot for operation on the product and a pick-and-place robot for picking parts off and placing parts on conveyors. Each robot is equipped with sensors and actuators. Sensors are used for monitoring operating conditions in the factory, and actuators are used for switching automation equipment on and off. The robots send status information to the factory workstations to which they belong. In addition, they send factory alarms concerning undesirable situations in the factory that require human intervention. Factory operators view the status of the different workstations and view and update alarm conditions.

Parts are moved between workstations on a conveyor belt, and they are processed at each workstation in sequence. The first workstation is the receiving workstation and the last workstation is the shipping workstation. These two workstations only have pick-and-place robot. The others are line workstation with two robots.

The manufacturing operations required to manufacture a given part in the factory from raw material to finished product are defined in a workflow plan. Each operation is carried out at a workstation. Workflow engineers create workflow plans and their constituent operations.

Oppgaver:
- Finn aktører for systemet
- Finn use casene for systemet
- Lag et use case diagram – bruk gjerne include og extends til å strukturere diagrammet