CASE STUDY 2

Modeling the Tire Exchange Process

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SAMPLE DEFINITIONS

ACTIVITIES
Jack Up Car: Place jack under a car frame and jack tire three inches off the ground

INPUTS/OUTPUTS
Spare Tire: The tire used to replace the flat tire
Fixed Car: Car with the replaced tire

CONTROLS
Experience: Past experience that is applied to change the tire

MECHANISMS
Jack: A tool used to raise a portion of the car
IDEF 3 Model

- RAISE A CAR
  - FLAT CAR
  - JACK/DRIVER
- REMOVE FLAT TIRE
  - RAISED CAR
  - WRENCH/DRIVER
  - EXPERIENCE/MANUAL
- CAR WITH THREE TIRES
- SPARE TIRE
  - PREPARE THE SPARE TIRE
  - TIRE READY TO BE USED
  - PUMP/DRIVER
- PUT THE SPARE TIRE ON
  - FIXED CAR
  - WRENCH/DRIVER
  - EXPERIENCE/MANUAL
- CAR READY TO GO
  - LOWER THE WHEEL
  - JACK/DRIVER
  - EXPERIENCE/MANUAL
  - EXPERIENCE/MANUAL
  - EXPERIENCE/MANUAL
  - EXPERIENCE/MANUAL