

## Engineering Contexts & Challenges Assessment Task 1 & 2

Use Assignment 6 from your notes.

Complete the following:

- Analyse the needs being met by the system
- Annotated system & sub-system diagrams
- A detailed description of how the system works, explaining the role of feedback within the system.
- An energy audit, identifying the main energy losses and transformations, plus efficiency calculation.
- Simulate the control system
- Simulate the mechanical solution

Time of operation = 10 seconds

Energy gained by lift = 3kJ

Current through motor = 5A

Supply voltage to motor = 230V