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- Goals
 - Swing reduction of hanging load
 - Implementation to current control system
- Solution
 - Input shaping invented on MIT



System Response to Both Inputs

• Model in virtual reality (demo in matlab)



• Travel time decreased from 180s to 43s.

Results

- Travel time improved
- Control system meeting the safety requirements
- Operator friendly application of Input shaping
- Easy implementation of the control system to current PLC.

Thank you for your attention