



Fog and Cloud Computing 2025/26 - Autumn 2025 - UiO

How to Give a Talk

Prof. Paulo Ferreira
paulofe@ifi.uio.no
UiO/IFI/PT



"title" → The Elevator

"Authors Names and Affiliation" → Paulo Ferreira
UiO

"Event / Location / Date" → Jan. 1850
Albany, New York



Motivation

- Would you like to go from 3 level building to a N levels building?
- Build huge building with many floors
- Make lots of money selling/renting flats



"present a scenario or a situation in which the audience is clearly interested on"

© Paulo Ferreira

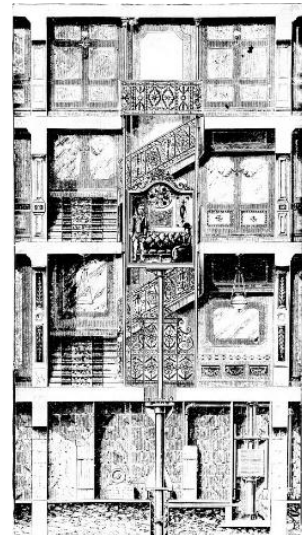
3

3



Overall Goal / Objective

- Make a machine that allows to travel vertically
- We call it the elevator
- Requirements:
 - Cheap
 - Easy to manage
 - Safe
 - Robust
 - Available



"should derive directly from the motivation"

© Paulo Ferreira

4

4



Challenges / Difficulties / Problems

- Cables
- Efficient engine
- Big enough for people and luggage
- Comfortable (speed, acceleration)
- Safety when fail occurs

"correspond to the issues that the audience think about once they know the goal"



© Paulo Ferreira

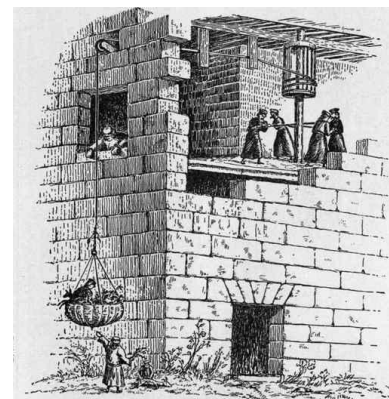
5

5



Disadvantage of Other Solutions

- Elevator manually operated
- Not reliable
- Too small (just one person on each travel)
- Elevator with an engine but its too expensive



*"the audience thinks:
- ok, fine! let me go to the supermarket and by an elevator,
unless.... you convince them that there is no such thing, yet !"*

© Paulo Ferreira

6

6

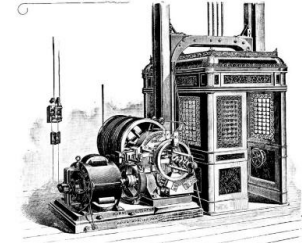


Solution – The ELEVATOR !!!!

- Diesel engine (re-designed for 24/24 operation)
 - Great steel cables (elastic, strong new material)
 - Counterweight (optimized for each case)
 - Safe mechanisms (novel safety brake)
-
- Characteristics:
 - safe
 - fast
 - cheap
 - etc...

"explain, in just one slide, the core idea, i.e. the novelty!"

Morse, Williams & Co.,
PASSENGER
AND
FREIGHT **ELEVATORS.**



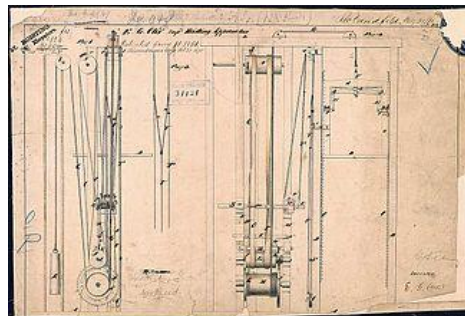
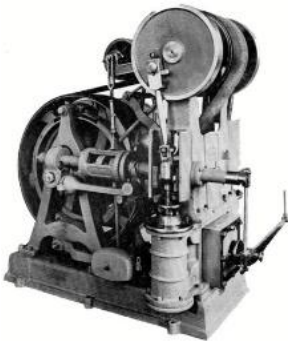
ELECTRIC ELEVATOR
Write us for Circulars and Prices.
Main Office and Works, 1102 Frankford Avenue,
PHILADELPHIA.

© Paulo Ferreira

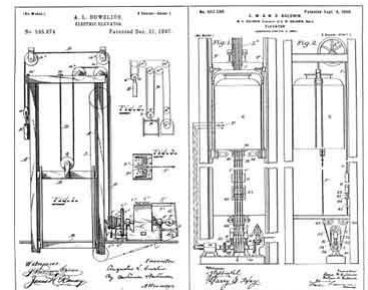
7

7

Architecture / Algorithm



"describe the system"



© Paulo Ferreira

8

8



Implementation



"describe the prototype ! show the audience that it is feasible"

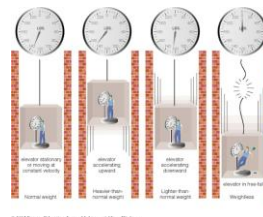
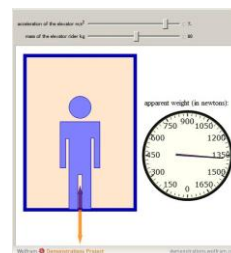
© Paulo Ferreira

9

9

Evaluation

- Experiments done
- Results obtained:
 - Tables
 - Graphs



© 2005 Pearson Education, Inc. publishing as Addison-Wesley



"show the audience that your solution respects the requirements"

© Paulo Ferreira

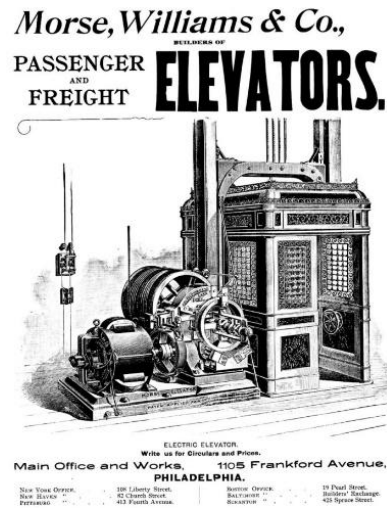
10

10



Conclusion

- Elevator is great
 - Cheap
 - Easy to manage
 - Safe
 - Robust
 - Available
- Allows you to make taller buildings, with more flats to sell/rent
- Make more money



"recap the most relevant issues"

© Paulo Ferreira

11

11



Questions & Answers

more info: www.TheBestElevatorYouCanBuy.com

"leave here your contact"

© Paulo Ferreira

12

12