**Sideways Elevator Panel Project**

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**Executive Summary**

**Overview**

The future is here, and technology is only advancing. We as human beings need a new way to advance, a way to move in new directions not just through life, but through buildings. Sideways movement for elevators is on the rise, with the starting point being Berlin, Germany. This new mechanical advancement will completely change not only the way humans travel and reach A-Z through skyscrapers, but also the architecture of building themselves. Sideways elevators will completely change the vision of engineering. The starting point is to discover how to implement this in modern America.

**Functional Requirements**

-Elevators will move accordingly to user input.

-Elevators will open/close due to user input.

-Elevators will reach designated location for user.

**Non-functional Requirements**

-Elevator buttons will have good descriptions for specific floor.

-Elevator will have a safe speed.

-Elevator should always be functioning.

**Performance Requirements**

-Elevator will respond to all user inputs in a timely manner.

-Elevator will be consistent and maintained weekly.

**Design Constraints**

A few design constraints are the complexity and engineering of elevator traffic. The number of elevators that will have to go through similar paths, with plenty of floors to choose from, plenty of mechanical changes that elevators will go through to reach specific floors. Design constraints such as elevators going up and down to side to side will complicate the architectural design of this system.

**Proposed Diagrams**

DFD FlowChart:

A diagram of a flowchart

Description automatically generated

**Budget**

The cost of such engineering will cost over $5 million dollars in just installing such technology from ThyssenKrupp. Engineers all the way from Germany will fly to America to work on this year long project.