Elevator system V1 (Week 38)

Linear Transportation System

Rules:
1. Arrive at floor without vertical gap
2. Wait at floor for a couple of seconds
3. Emergency button stops operation
4. Display current floor with screen
5. Acceleration profile independent of weight **(PID)**
6. (Accessibility options ♿)
7. Stop at next chosen floors in the same direction as travel
8. Don't go down at bottom floor and not up at top floor
9. Don't travel if above maximum weight, give alarm
10. Activated buttons light up with LED
11. Open and close doors

Parts: Motor, pulley, platform, transmission, cable, control system