



Bangladesh University of Engineering and Technology

Project Proposal

Course Number: EEE 318

Course Title: Control System I Laboratory.

Project Idea:

- (1) Smart Elevator System
- (2) Smart Wheelchair

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Project Idea 1:

Smart Elevator System:

Description: We will build a model of an elevator system. All the basic commands will be included (Up, Down, No of Floor, cancelling if wrong command is given, alarm etc.). As we are in middle of a pandemic and it's not going away soon, giving the commands without physically pressing buttons will be safer for the users. So we will implement a voice command system alongside the traditional button system. The lift will not start moving if the load crosses a critical point as it will be risky. We will use a motor and a pulley system to move the lift up and down.

Smart Wheelchair:

We will design a wheelchair which will have some more feature than usual to add convenience to the user. Our wheelchair will be able to go from one point to another by using GPS. It will be able to avoid obstacle, and detect edge so that it can avoid accident. The wheelchair will have a manual control system also because GPS doesn't work well under 15 foot distance and sometimes automated pathfinding mechanism may not give the best result.