OMOJOLA TEMILOLUWA OLUWATOMISIN

17/ENG04/058

ELECTRICAL/ELECTRONICS ENGINEERING

SHORT TEST

You have been invited by the current president of Nigeria, General Muhammadu Buhari to make an argument for the optimization of engineering resources in the country.  As an aspiring Engineer, briefly discuss your view on this and make viable recommendations that will facilitate timely completion of engineering projects within the allocated budget without jeopardizing economic and legal regulations of Nigeria.

ANSWER

As an aspiring engineer my recommendations would be,

1. All engineers, project managers, economists and every other person working on the project must be reliable and trustworthy because the project is only as good as the people doing it. This will ensure completion in allotted time.
2. Optimizing engineering resources can lead to significant reduction in the duration and cost of repetitive construction projects such as highways, high-rise buildings and housing projects. Rayes, et al., (2001), developed model that utilizes dynamic programming formulation and incorporates a scheduling algorithm and an interruption algorithm so as to automate the generation of interruptions during scheduling.
3. The key to keeping projects within allocated budget and time is the managers and laborers employed to do it. These people should be familiar with engineering laws and regulations guiding constructions. If there are, the project will run smoothly and it will be finished in time. Also, they should be familiar with the proper materials required to complete the projects so as to prepare an acceptable bill of quantities well in the range of the allocated budget.