**NAME:** OLADIPO TOMI ISAAC

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**DEPARTMENT:** MECHATRONIC ENGINEERING

**COURSE CODE:** ENG 384

**COURSE NAME:**  ENG. LAW

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.

SOLUTION

Engineering resources in the country can be optimized by having a transparent contractor-worker relationship. Contracts are awarded to engineering firms, i.e. rehabilitation of an express way. Such contracts should have a human resources manager, an engineering supervisor, an economist. Likewise, an ecological expert should be on board.

In today’s industrial age, where engineering processes are highly crucial and a synonym of development and growth, the need to use resources effectively and efficiently has become necessary. The continuous growth of industries has led to development of highly efficient or leaner processes which focus on minimum wastage and maximum utilization of the available resources through various technologies developed overtime. The use of robots and automating the processes in order to eliminate human error and increase efficiency has been adopted by almost every industry today which has further been facilitated by the Internet of Things in developing smarter processes.

Human resource managers look out for the input of labourers both skilled and unskilled and likewise should compared to their output. The engineering supervisor should ensure that the job done by these workers meet all engineering requirements and specification. This must be done without bias. The economist here must work hand in hand with both the human resource manager and the supervisor as he controls their funding. However, this power shouldn’t be abused. He must correlate with the supervisor to know how the material chosen, the engineering approach taken, and a few other factors affect the funding. Likewise, he should seek to support human management as some or more workers may have troubles either individually or collectively.

The ecologist literally plays a behind the scenes role and only steps in when any step taken into the project seeks to harm the environment.