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**OPTIMIZING ENGINEERING RESOURCES IN NIGERIA**

*As an aspiring engineer, I would like to give counsel to the president on how engineering resources in Nigeria can be optimized, In today's industrial age, where manufacturing 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 (IOT) in developing smarter processes.*

*Utility optimization not only consists of handling resources in a smart manner, but also optimizing the path or manner in which they are handled. Adjusting the placement of machines as well as defining the flow of resources throughout the shop floor is also an integral part of the utility optimization process. An efficient flow ensures an efficient execution of process and minimum wastage of time and resources. This is usually done through the use of process flow charts do determine process steps as well as Pareto charts to determine the importance of every resource in terms of its usage and need in every process.*