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Whether it is about people waiting in the long lines for the process of their work from the government in Afghanistan or it is hijacking and threatening of a contractor to death, who was about to attend a bid opening. Such incidents were common, whether people were asked to bribe or become allied for a common interest or hijacked. In order to at least address the current problem of the procurement process we at the National Procurement Authority and I as a software development specialist built the first-ever E-procurement system of Afghanistan, which is an alternative for the current manual system to tackle vulnerability and dispute in procurement processes.

One of the reasons electronic public service delivery is not that much efficient is the lack of standardized architecture and service system engineering of the current system which restricts such services from reaching their potential, these challenges make the already developed system not very user-friendly and acceptable which leads to negative user experience. So, there is a need for in-depth enhancement to mature the electronic procurement system to make it self-adaptive and intelligent by focusing on developing methodologies to understand enterprise-end-user(customer) interactions and requirements from both socio-economic and technological perspectives, and to enable value co-creation and productivity improvements which will lead to end-user satisfaction in the design and performance of the system.

M.Tech (Computer Science and Engineering) at IIT Kharagpur is the platform that will help me to contribute, standardized, and architect electronic procurement system. I would implement concepts such as enterprise architecture of software modeling and design, intelligent systems, fault-tolerant computer systems, information retrieval, and risk modeling and assessment in the shape of service system engineering which will include stages such as service strategy/concept, service design/development, service transition/deployment, service integration, and continuous service improvement to create a centralized hub of data exchange for Afghanistan procurement in the form of a system.

My professional career in different organizations, especially in National Procurement Authority, gives me the firmed base to see and implement result-oriented solutions with the help of computer programming in Afghanistan electronic procurement system, a complete module to experience electronic procurement for the first time in the history of Afghanistan to take a firm step toward integrity and accountability. However, such implementation was the first step toward electronic procurement but still, there is a limitation and room for improvement to implement feasible and enterprise-level architecture solutions.

By gaining my master in Computer Science and Engineering at IIT Kharagpur I will not only bring the gained knowledge but also bring the most effective reforms and practices of other communities to practice in Afghanistan, such experience will lead us to implement standardized and result-oriented solutions in the short run to the electronic procurement system, and in the long run to all public services which are in the form of systems. Besides, the coding academy will be my priority to establish as a career path and base for the upcoming generations to help in promoting the goal of digitalization of Afghanistan.