Title: Utilization of 3D Printer into Development of Affordable and Functional Artificial Limb

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I. Abstract Body

Three-dimensional (3D) printing has become one of most influential concept in recent years as it refers to the technology which converts a virtual model to a tangible object. The advancement in 3D printing technologies on medical sector is illustrated into building affordable and functional artificial limbs. However, in Bangladesh use of three-dimensional printer is very limited and used only in research purposes. This paper titled 'Utilization of 3D Printer into Development of Affordable and Functional Artificial Limb' aims to examine the present situation of people with disabilities with prosthetic based treatment and the opportunities for contemporary technology to suppress these problems. The conventional process of producing artificial limbs or prosthesis, especially the lower limns are most expensive and the treatment procedure is time consuming. Besides traditional replacement system for the upper limbs is not available till date. On the contrary, three-dimensional printers can help to manufacture these artificial limbs at an reasonable price. These limbs will come with more accuracy, durability and flexibility, which will help many disable people to lead a better life.

II. Reference:

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III. Biography

Mohammad Nasfikur Rahman Khan completed his M.Sc. in Biomedical Engineering from Newcastle University, United Kingdom and B.Eng in Electrical and Electronic Engineering from Sheffield Hallam University, United Kingdom. He is currently working as a lecture of Independent University and research associate of AIMS lab United International University, Bangladesh. He is currently involved in several projects on 3D printing based artificial limbs development.

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