

# Radio Frequency Identification RFIDs, Cybernetically Coding our Future.

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## Abstract:

Imagine a world where a chip the size of a grain of rice would link to “information about the identity, physiological characteristics, health, nationality, and security clearances of the person it’s embedded in”[1]. This small hermetically sealed glass capsule, when implanted, would hold troves of unique information much in the same way that DNA codes each person differently. This is one of the myriad of applications that RFID technology has the potential to impact. The technology is here; however, there is an exigency for the design of security measures to ensure that all data remains protected. In this presentation I will give a detailed background of RFID technology, several applications, and discuss the security concerns/schemes that have been developed to combat threats. Every RFID implementation is different; consequently, security controls need to be customized in each application and assessed. Developing RFID technology is a glimpse to the technology of our future. We must challenge, validate, and “fine tune” every aspect of this technology so that it can more effectively enhance our future way of life.