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## **Systems Generational Evolution**

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**Abstract:** Systems need to evolve to what is required and needed functionally. Looking at how each generation of a system changes as an evolutionary process, one can see correlations with the natural evolution process. Using nature as a guide, biological models may be a means to assess an engineered system and propose anticipatory changes (evolutions) to a current system to create the next generation. This idea of systems generational evolution may provide insight into the design process of multi-generational systems to be more adaptable to changing technology. Fundamental areas of research for support in this topic are biological evolutionary mathematical models and system of systems classification.

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