At the Johns Hopkins Center for Bioengineering Innovation and Design (CBID), multidisciplinary design teams of students, clinicians, engineering and public health faculty, collaborate to develop technical solutions to large unmet clinical and public health needs. In this talk, a spiral/iterative design process will be described, that emphasizes concurrent development of technical, clinical, and commercial aspects of an idea. Examples of student/faculty driven innovation journeys that started with clinical insights from around the world will be presented. Several of these innovations have since moved on to clinical translation through entrepreneurial ventures, or further product development within medical device companies. Examples of projects span multiple clinical and public health areas such as maternal and neonatal health, infectious diseases, general surgery, urology, orthopedics, plastic surgery, and more.

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