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Each year, unmonitored hospital patients account for a significant percentage of preventable loss of life outside of the ICU. In an effort to address this problem surrounding the often overlooked out-patient and day-patient population within hospitals, LoRaware was developed in part by NU DOEC staff member, David Rodriguez, and fellow EEC capstone group members as a proof of concept for Long-Range (LoRa), Low-Power Wide Area Networking Technology (LPWAN) that will be demonstrated live in presentation. LoRaware is a wireless patient monitoring system comprised of multiple designed and built wearable prototype devices facilitated by a modern Internet of Things (IoT) Architecture and Multi-Network Topology in order to yield improvements in battery life, formfactor design, spectrum bandwidth allocation, secure data transfer, and ease of implementation over currently available wireless patient monitoring products.