ILLINOIS INNOVATION PRIZE

Adam's PhD work is in the areas of control theory and computer science. During his PhD research, he developed a new approach for pattern recognition and classification in machine learning. Based on this research, Adam co-founded a data analytics software company called Rithmio. Rithmio's first product is a gesture recognition software system for wearable devices -- electronic accessories worn on the body that include motion sensing, communication, and computing. Rithmio's software has two features that set it apart from the state-of-the-art. It can be trained by the user for new, user-defined gestures, and once trained, it can accurately distinguish the gesture being performed and provide precise analysis of how the gesture compares to a baseline. These features enable a new generation of personalized sports and activity tracking devices as well as new applications in human-computer interactions, gaming, employee training, and physical rehabilitation.

2014 FINALIST
ADAM TILTON
PhD Candidate, Mechanical Science and Engineering

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