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CASA Center for the Internet of Everything (C4IoE)

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The purpose of this presentation is to share an idea of a virtual Center for the Internet of Everything (C4IoE) that will promote the awareness, training, education, and research of the Internet of Everything (IoE) through multi-disciplinary research and creative activities. The advent of the Internet allowed computers to talk to each other. With cheaper hardware components and network infrastructure, the Internet of Things (IoT) emerged to allow embedded devices to talk each other. Based upon the IoT, the IoE will come to allow everything to talk to each other by interconnecting people, processes, things, and data. CASA needs to prepare for the next generation workforce which is aware of the emerging technology trend IoE and can transform their legacy business domains to IoE-enabled ones. For this purpose, the Center has conducted two research projects and will also launch two new projects: 1) ProDevOps = Programming + Development + Operations, 2) Digital Humanities in American Pragmatism Research, 3) Visual Sustainability Development for SIU Image Promotion and Advertisement, and 4) A Scalable and Agile Web Application using Search Engine Marketing for SIU Online Degree Programs. We will share our preliminary results of our research projects and two new project proposals with CASA researchers, who may be interested in applying the IoE to their business domain for a joint research project with the Center. In the future, the Center can create more joint research projects to transform the current systems to smart and secure ones equipped with the IoE.