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## Open Resources for Teaching IoT Physical Security

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# Open Resources for Teaching IoT Physical Security

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## Abstract

IoT and physical devices are around us all the time. From a simple watch that measures your heartbeat to an advanced voice assistant that turns on your light, IoT devices are everywhere. Teaching security in this type of physical device is a new topic, and finding good quality resources for teaching is also a complicated task. In this project, the instructor took the best online open-source materials to create 15 modules that teach students with hands-on activities the interaction with IoT devices and their security. The materials include labs with emulators of physical devices like raspberry PI and voice assistants. Students do not need to have the actual device to interact with them. Successful implementation of this course and open materials have been done in the IT department in the College of Computing and Software Engineering at KSU since Spring 2022.