

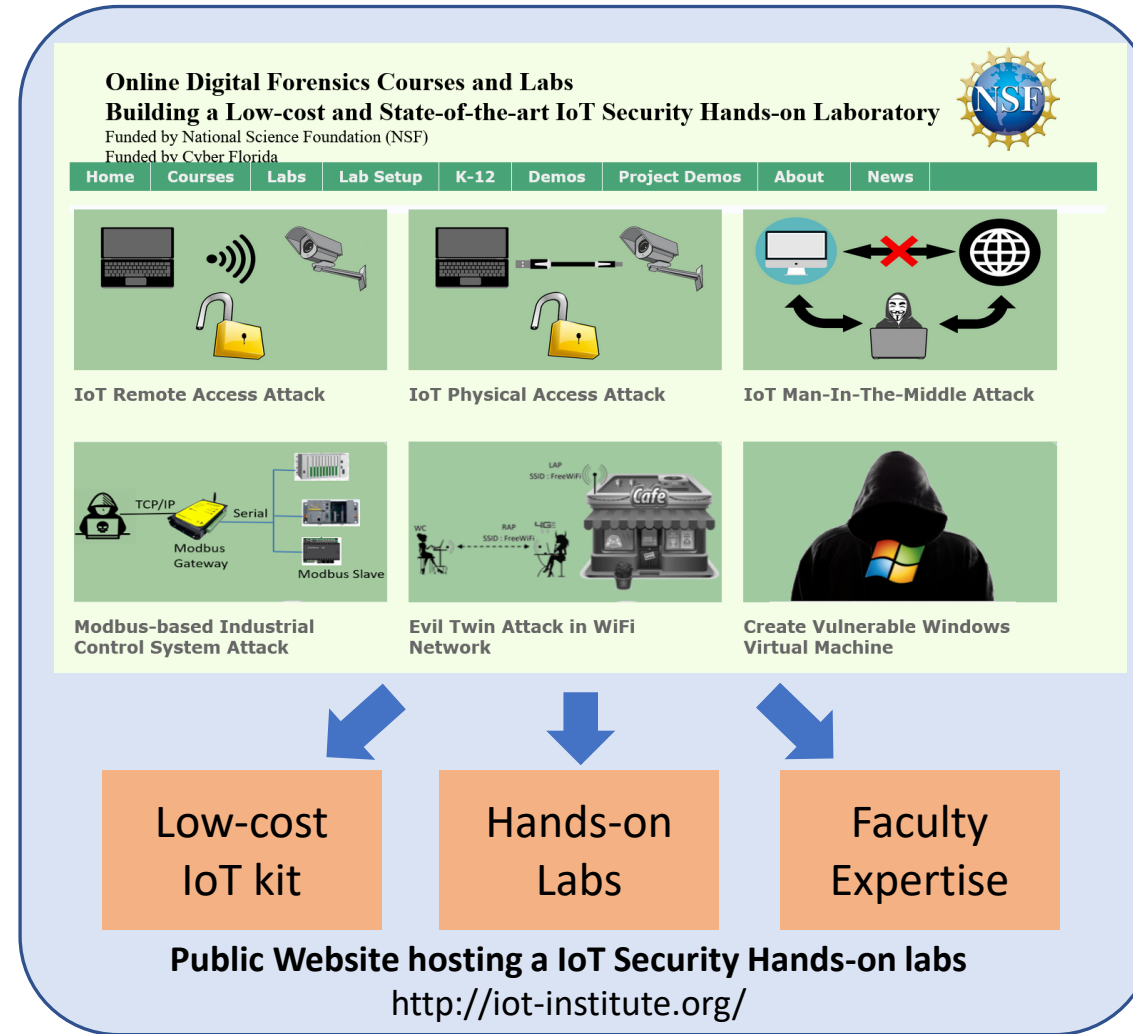
SaTC: EDU: Collaborative: Building a Low-cost and State-of-the-art IoT Security Hands-on Laboratory

Challenges:

- Promoting education in IoT security and privacy
- Current IoT Security education lacks Hands-on training
- Great shortage of low-cost and high-quality IoT Security Lab

Solutions:

- Design an affordable low-cost IoT kit with an Integrated Development Environment
- Design a suite of teaching labs and case studies using the low-cost IoT kit
- Integrate the developed IoT teaching labs and case studies into related courses
- Develop faculty expertise and inspire the research-to-education transition in IoT security



Intellectual Merit:

- Development of effective, engaging and novel
- Teaching materials
- Hands-on labs to improve cybersecurity training effectiveness and coverage

Broader Impacts:

- Improving curricula, student learning, and faculty collaboration
- Broadening participation of underrepresented groups in cybersecurity training
- Disseminating the developed teaching materials to institutions across the country
- Contributing to the Cybersecurity Workforce Development Initiative

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