Developing Security Education Materials for Future Advanced Manufacturing Engineering Workforce
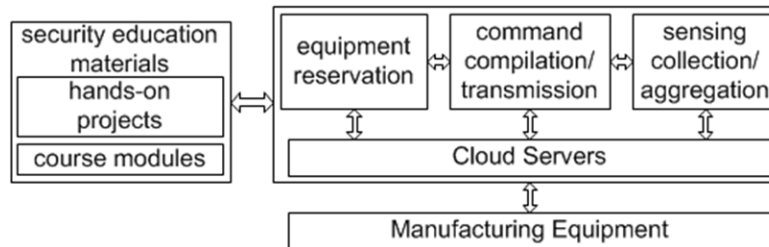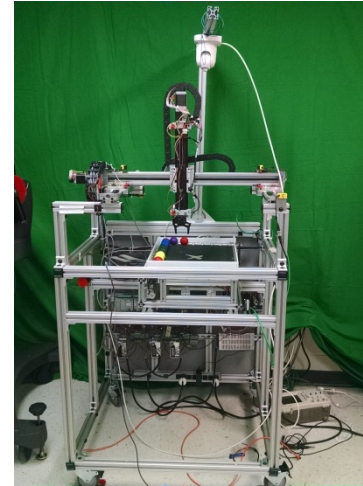
UNC CHARLOTTE

Challenge:

Security education in AMS (advanced manufacturing systems) falls behind

Need to design both course modules and platform for hands-on experiments

Solution:

Education materials on security of communication, control, and sensing in AMS

Systematic evaluation in both CS and ME courses

Scientific Impact:

Bridge the gap in security education for AMS

Cloud based experiment environment with real industrial equipment

Broader Impact:

Train qualified workforce for thousands of openings in manufacturing industry

Provide interdisciplinary research/education experiences to both faculty and students