Build, Hack, and Explore VR Learning in Engineering Technology for Healthcare

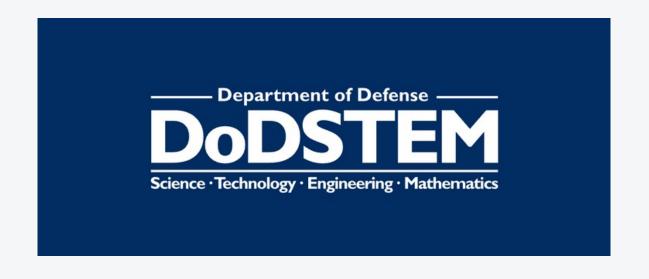
About Us

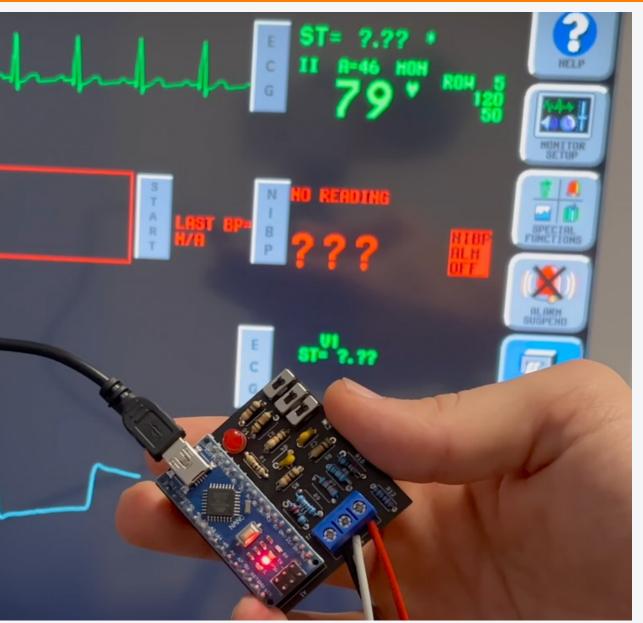




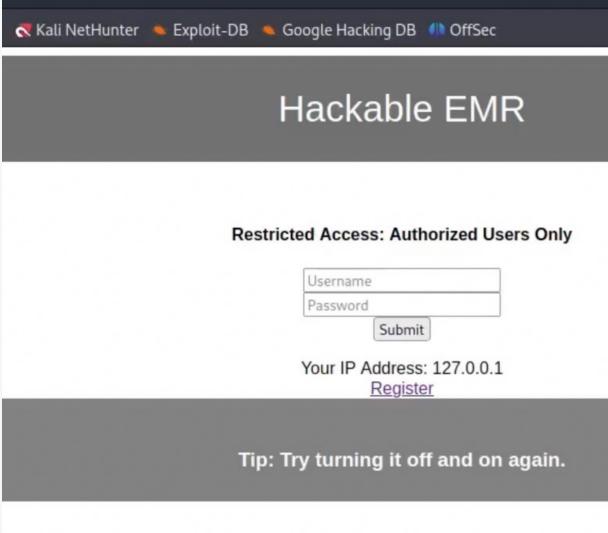
Previously Funded NSF ATE
Biomedical Engineering
Technology - Pathways to
Medical Device Manufacturing,
Networking, and Cybersecurity











Build your Own Biomedical

VR Training Modules

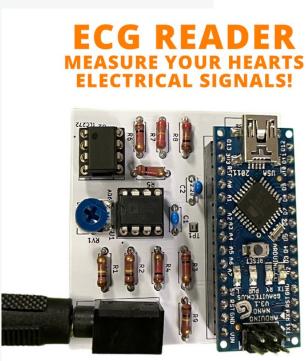
Hack an EMR

Build your Own Biomedical Device



ECG Simulator

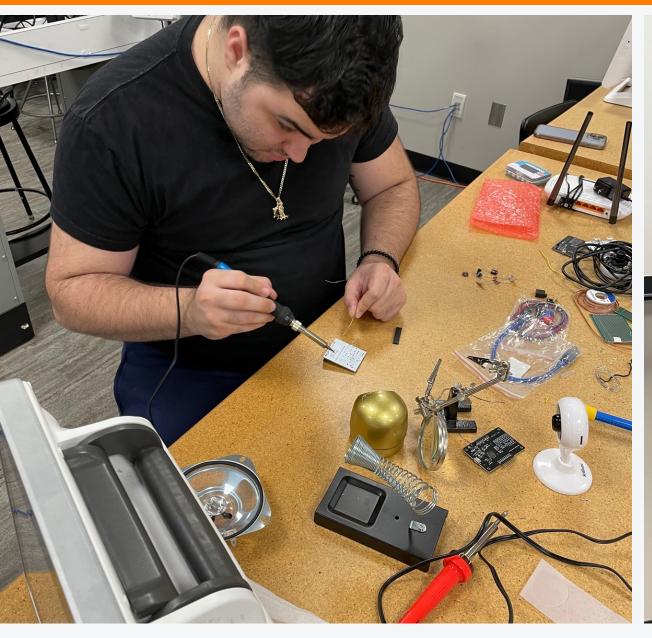
Learn about electronics, soldering, and patient monitors with our electrocardiography simulator.



ECG Reader

Learn about electronics, electrical signals, ECG waveforms and artifacts as you build your own ECG device

HITEC July 26th 2023







START SOLDERING

TEST MEDICAL DEVICE

EDUCATE

Open Source Content and Videos

STUDENTS GET A BADGE FOR COMPLETION





ECG Simulator

Created on Mar 3, 2022

Learner successfully built an ECG and respiratory rate simulator

Badge Details

EARNING CRITERIA

Recipients must complete the earning criteria to earn this badge

The learner must

- 1. Identify correct electronic components
- 2. Solder components on to PCB board
- 3. Verify and test the board
- 4. Troubleshoot and fix any issues that occur

Examples at HTM-Workshop.com

VR Training



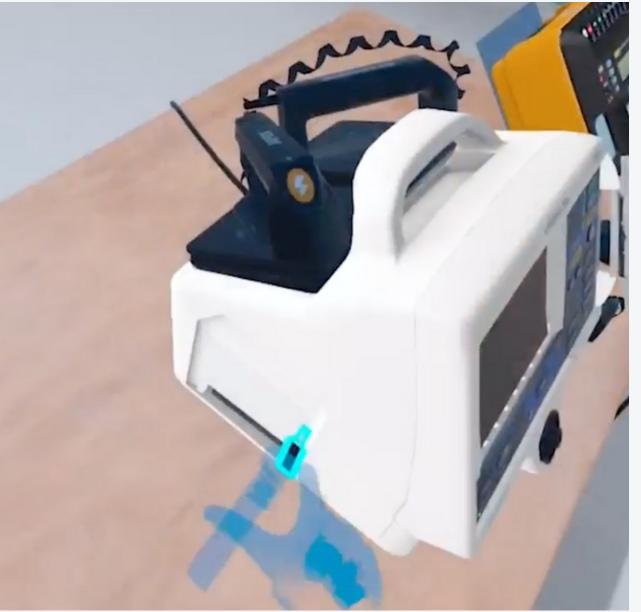
12 Modules ~ 20 minutes each

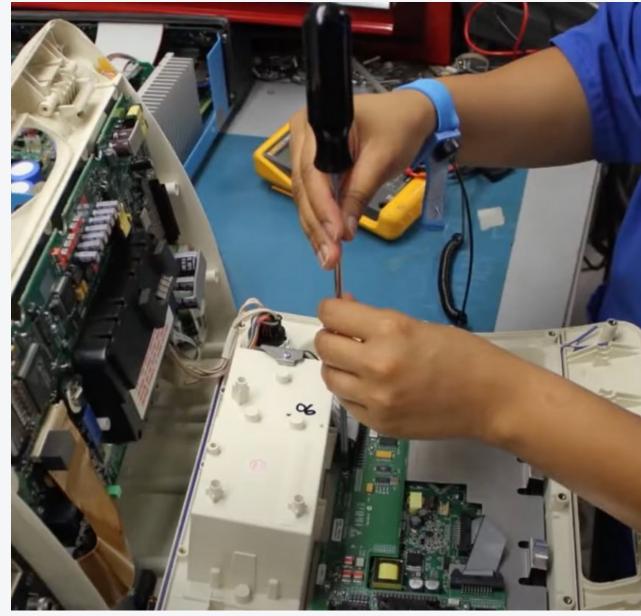
Topics Include: Prevenative maintenance of defibrilators, X-ray battery replacement, Electrical Safety tests, suction regulator repair and more...



July 26th 2023







Enter Virtual Envionrment

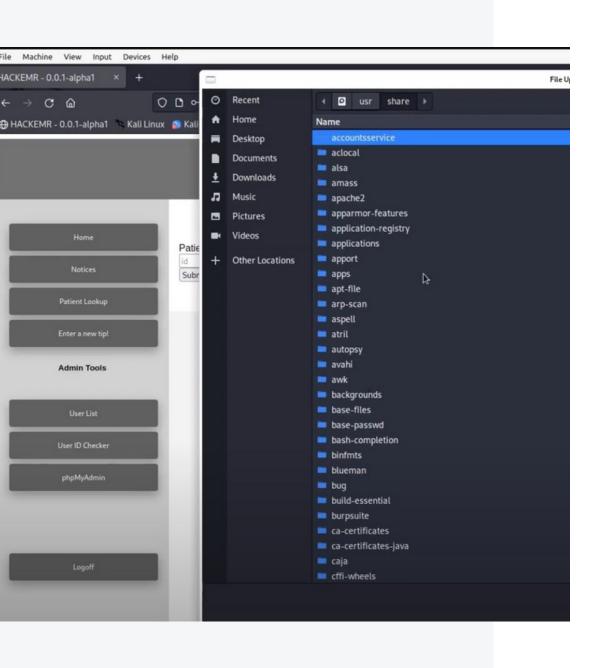
Follow audio and visual prompts

Move from virtual environment to real life

Examples

https://www.nvrtlabs.com/library

HACK Electriconic Medical Records



Thing to do with hackable EMR

- Cross site scripting
- Full access to database through sequel injections
- Run arbitrary commands through diagnostic page

Built with PHP

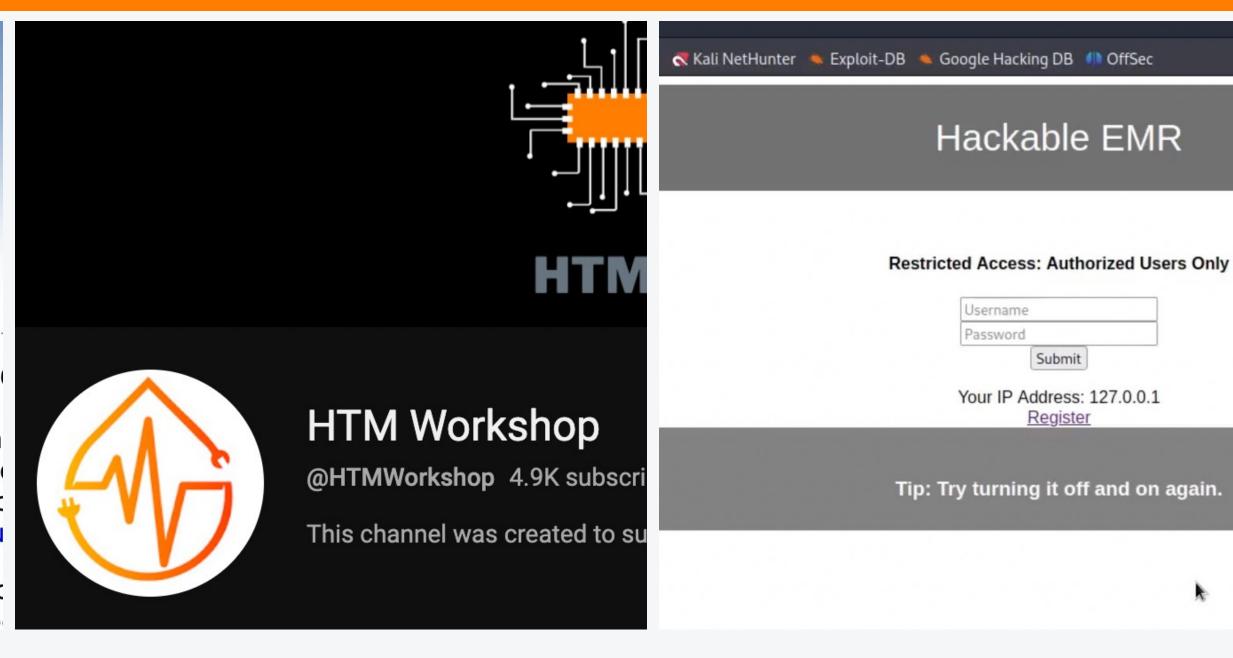
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VirtualBox

Welcome to V

VirtualBox is a powerful x8 enterprise as well as home feature rich, high performa the only professional solution Software under the terms of version 3. See "About Virtual Powerful x8 enterprise as well as home feature rich, high performa the only professional solution solution solution solutions."

Presently, VirtualBox runs cand supports a large numb



Download and Run as Virtual Machine

Follow Youtube Tutorials

Practice and Discover

Examples

https://www.youtube.com/channel/UCBkQn_WucQ8YpzRFY3EYqMQ

But that's not all!

VR trial, Kits, and more!

