# The Automatic Pentesting Machine

#### The project.

This project proposes to build a machine that is capable of automatically conducting a simple penetration test on a target or target network.

The machine will take the form of a hardware “rat” that will automatically start its work when plugged into a network. Its work, is defined by the objective of gaining remote code executing rights on as many machines on the network as possible **without harming the day-to-day operations**.

Finally, the machine will relinquish any gained control to the operator, and optionally provide a penetration testing report.

#### The problem.

Doing an open penetration test on a network takes time, and involves a lot of repetitive manual work. This machine wants to act as a starting step for a penetration tester to understand a network, and possibly gain an initial foothold.

It is unlikely that the machine on its own will be capable of handling the entire test.

#### Define the research.

#### **Define the research questions.**