

Robert Deal  
Senior Design  
October 6th, 2025

Milestones:

1. Setup of test environment
  - a. This includes selecting a range of devices and establishing a network to test vulnerabilities on.
2. Vulnerability Identification
  - a. This involves identifying vulnerabilities on the various test devices, this has a highly variable time demand on it and could take very little time or a whole lot of time.
3. Exploit Realization
  - a. Being able to find a vulnerability is very different from being able to utilize it, so this would be proving that the vulnerability is useful as well as making sure its robust
4. Target Handler
  - a. Creating an automated target handler to formalize connection and allow for effectors to be applied to the target system
5. Automation of attack
  - a. Making the process repeatable and simplified
6. UI finalization
  - a. Putting together an interface for people to use the program with

Timeline:

- Setup of test environment
  - Started in early September, already mostly selected, likely finished by end of October
- Vulnerability Identification
  - Started Sept 29th, Unknown finish date
- Exploit Realization
  - Reliant on Vulnerability Identification, could take weeks
- Target Handler
  - Reliant on Exploit Realization, likely will not take more than a month
- Automation of attack
  - Reliant on Target Handler, will likely take a week or two
- UI finalization
  - Will need to decide how best to utilize it after development work is more completed

Effort Matrix:

- All tasks to be completed by Robert Deal