The Art of Hardware and Software Reverse Engineering

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What is Reverse Engineering?

Reverse Engineering is the art of taking apart anything man-made to break it down and gain an understanding of its functions for the purpose of replication, renewal or just genuine interest.

#### Why Learn Reverse Engineering?



To understand the devices which we purchase, give, use and even repair.



To learn about technology.



Recreate legacy software and vintage hardware.

# Pre-requisites

THE WILL AND DRIVE TO LEARN... AND A COMPUTING DEVICE.

## Uses of Reversing



Improve hardware and software.



Find vulnerabilities and develop exploits.



Prevent vulnerabilities and the development of exploits.



Replicate and upgrade outdated technology.



Cybersecurity operations.



Digital Forensics investigations.

#### Nice to Haves:





## Types of Analysis:



Dynamic – Executing and testing a program in real-time.



Static Analysis – Testing an application by viewing its binary.

## RE-Related Resources

