

# Jeroen Kloppenburg

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Interested in all the low level details of software and hardware.

Always looking to break things and find out how they work.

Looking to get into cyber security for pentesting / ethical hacking.

## Experience and Interests

<b>Reverse Engineering</b>	Binary Analysis, Memory Manipulation, Mono Framework
<b>Low Level Programming</b>	Assembly, File Formats, Operating Systems, Compilers
<b>Networks</b>	Communication Protocols, Network Security
<b>Linguistics</b>	Natural Language Processing, Machine Translation
<b>Music and Sound</b>	Audio Manipulation, Sound Synthesis, Music Theory

## Projects

### **Narrative** (*on-going*)

*WinForms Application*

Process memory reading and manipulation for informative and explorative purposes.

### **Freeform** (*on hold*)

*Web Application*

File manipulation tool, with a focus on figuring out unknown file formats and encryptions.

### **ULDL** (*thesis project*)

*Script collection*

Static binary analysis and emulation tools using instruction semantics extracted from the Arm Machine Readable Specification.

## Education

### **MSc Computer Science - Software Technology** (*2019-2023*)

*Delft University of Technology*

**Specializations:** Blockchain Technology, Quantum Computation, Reverse Engineering

**Thesis:** Expressing Intent; An Evaluation of the Arm Machine Readable Specification

### **BSc Computer Science and Engineering** (*2015-2019*)

*Delft University of Technology*

**Paper:** A Survey on Distributed Machine Learning

**Minors:** Minor Finance, Minor Modern Physics (partial credit)