



MASTER OF SCIENCE  
IN ENGINEERING

**Hes·SO**

Haute Ecole Spécialisée  
de Suisse occidentale

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Master of Science HES-SO in Engineering  
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# Master of Science HES-SO in Engineering

Orientation: Information and Communication Technologies (ICT)

## IMPROVING COSTS, SAFETY AND LIVENESS IN BLOCKCHAIN SYSTEMS

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# Information about this report

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## Declaration of honor

I, undersigned, Nicolas Huguenin, hereby declare that the work submitted is the result of a personal work. I certify that I have not resorted to plagiarism or other forms of fraud. All sources of information used and the author quotes were clearly mentioned.

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## Validation

Accepted by the HES-SO//Master (Switzerland, Lausanne) on a proposal from:

Prof. Dr. Marcelo Pasin, project advisor

Place, date: \_\_\_\_\_

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# Abstract

TODO: add abstract

**Keywords:** Algorithms; Blockchain; Distributed Systems; Sharing Economy



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# 1 | Introduction

## 1.1 Context

TODO: talk about ethereum, casper, the different problems that arise when we talk about PoS and such

## 1.2 Objectives

TODO: write about the tradeoff triangle, the strategies, the liveness and all that jazzthe tradeoff triangle, the strategies, the liveness and all that jazz

## 1.3 Contents

TODO: explain what is in this shite



## 2 | Contents

TODO: add contents



## 3 | Conclusion

TODO: insert conclusion



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