



Valid Proof

Bring trust into your projects

Blockchain Security | Smart Contract Audits | KYC

Audit

Security Assessment

December 2021

For



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Disclaimer

Valid Proof reports are not, nor should be considered, an “endorsement” or “disapproval” of any particular project or team. These reports are not, nor should be considered, an indication of the economics or value of any “product” or “asset” created by any team. Valid Proof do not cover testing or auditing the integration with external contract or services (such as Unicrypt, Uniswap, PancakeSwap etc’...)

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Valid Proof Reports represent an extensive auditing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology. Blockchain technology and cryptographic assets present a high level of ongoing risk. Valid Proof’s position is that each company and individual are responsible for their own due diligence and continuous security. Valid Proof in no way claims any guarantee of security or functionality of the technology we agree to analyze.

Version	Date	Description
1.0	December 2021	<ul style="list-style-type: none">• Layout project• Automated- /Manual-Security• Testing• Summary

Network

Binance Smart Chain (BEP20)

Website

<https://www.helkin.com.br>

Telegram

https://t.me/HELKIN_TOKEN

Twitter

<https://twitter.com/Helkincoin>

Instagram

<https://instagram.com/helkincoin>

Description

It has been said that cryptography goes against everything that is healthy for the environment. We at HELKIN believe that we can integrate the world financial future of cryptocurrencies with a healthier, vibrant planet. We are studying applications for the daily use of renewable energy sources, applications ranging from residential, commercial and transport modes such as electric vehicles, electric bicycles and more.

We have a bold plan that will revolutionize the daily lives of each one. In our plan, we will implement charging stations for electric vehicles throughout Brazil, as well as stations for renting electric bicycles. Making these modes of transport much more accessible to everyone, thus drastically minimizing emissions of carbon dioxide and other toxic gases that are harmful to our health.

With the launch of HELKIN, you and your whole family can enjoy all these benefits, you can recharge your electric vehicle at one of our charging stations, you can rent an electric or conventional bicycle, with the convenience of making your payments using the HELKIN.

Project Engagement

During the 9th of December 2021, Helkin engaged Valid Proof to audit smart contracts that they created. The engagement was technical in nature and focused on identifying security flaws in the design and implementation of the contracts. They provided Valid Proof with access to their code repository and whitepaper.

Logo



Contract Link

v1.0

Contract: <https://bscscan.com/>

address/0xd55e4fcea77fd5902ad10914f8b2a5ad1ee606b5

Background

Valid Proof was commissioned by Council of Apes to perform an audit of smart contracts:

<https://bscscan.com/address/0xd55e4fce77fd5902ad10914f8b2a5ad1ee606b5>

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	PASSED
2. Race conditions and Reentrancy. Cross-function race Passed conditions.	PASSED
3. Possible delays in data delivery.	PASSED
4. Oracle calls.	PASSED
5. Front running.	PASSED
6. Timestamp dependence.	PASSED
7. Integer Overflow and Underflow.	PASSED
8. DoS with Revert.	PASSED
9. DoS with block gas limit.	PASSED
10. Methods execution permissions.	PASSED
11. Economy model of the contract.	PASSED
12. The impact of the exchange rate on the logic.	PASSED
13. Private user data leaks.	PASSED
14. Malicious Event log.	PASSED
15. Scoping and Declarations.	PASSED
16. Uninitialized storage pointers.	PASSED
17. Arithmetic accuracy.	PASSED
18. Design Logic.	PASSED
19. Cross-function race conditions	PASSED
20. Safe Open Zeppelin contracts implementation and Passed usage.	PASSED
21. Fallback function security.	PASSED

Audit Results

AUDIT PASSED



Security Issues

High Severity Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

Low Severity Issues

No low severity issues found.



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