

# Truth Verification Test Report

Test Certified by ATW Lie Detection Solutions

This report was generated from Test Id:  
352555ba2ed44036b233b02aa69cc0a9

Test Name: Custom Test

Examinee: Bobby Joe

Customer Id:

user\_2ZXgzPaBIYQW7qOp9Unn6Yf8SuU

Test Began: 6/20/24, 1:10 PM MDT

Test Completed: 6/20/24, 1:30 PM MDT

As to submitting false degree papers with my application, I did not.

CREDIBLE - TRUTHFUL

As to stealing items from a past employer, I did not do that.

CREDIBLE - TRUTHFUL

As to disciplinary actions at a previous job, I did report any.

CREDIBLE - TRUTHFUL

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### AUTHENTICITY

ATW Lie Detection Solutions certifies that the included test report is original, and was generated at the request of the Customer to demonstrate the accuracy of the answers provided by the Examinee, listed above.

### TERMS AND PRIVATE POLICY

ATW Lie Detection Solutions does not use Customer Data for purposes other than those set forth in the Terms and Conditions which is available

# Truth Verification Test Report

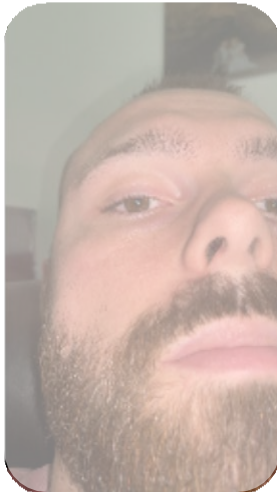
# Truth Verification Test Report

## I. Test Information

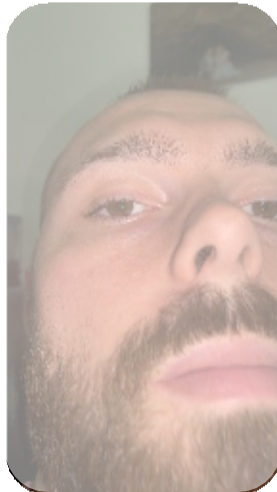
**Test ID:** 352555ba2ed44036b233b02aa69cc0a9  
**Test Type:** Custom Test  
**Test Date:** 6/20/24, 1:10 PM MDT

**Examinee:** Bobby Joe  
**Customer:** Ethan Ritchie  
**Customer Email:** ethritch@gmail.com  
**Customer ID:** user\_2ZXgzPaBIYQW7qOp9Unn6Yf8SuU

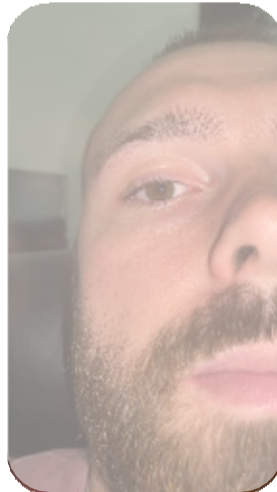
### I.1 Examinee Photo Authentication



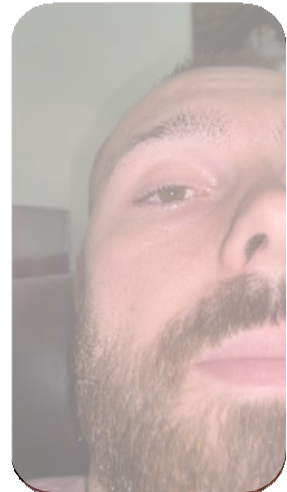
Test time elapsed:  
0:13



Test time elapsed:  
2:46



Test time elapsed:  
5:54



Test time elapsed:  
8:36

Report continues on next page

## 2. Methodology

**Test Accuracy:** Peer reviewed scientific analysis of the Ocular Motor Deception technology indicates that under ideal conditions the ATW Lie Detection Solutions algorithms correctly categorize examinees as deceptive or truthful 89% of the time, which implies a 11% error rate.

**Credibility Score:** Each topic question in an ATW Lie Detection Solutions test receives a Credibility Score, which is calculated by patented computer algorithms which measures 21 independent variables. The algorithm considers physiological changes, such as pupil dilation and other eye responses, as well as behaviors, such as verbal responses and reading behaviors to generate the score.

A score between 1-44 indicates a deceptive reaction (lying to the question). The closer the score is to 1, the stronger the reaction to the issue.

A score between 45-55 indicates an indeterminate response. That is, the algorithm could not determine a sufficient reaction on the suite of variables to determine whether the person was deceptive or truthful. In most cases, this can be remedied by improving the conditions under which the test is taken.

A score between 56-100 indicates a credible reaction (truthful to the question). The closer the score is to 100, the lesser the reaction to the issue.

**Procedure:** ATW Lie Detection Solutions uses a mobile device to present a series of standardized questions while the device camera measures and records pupil dilation and other eye behaviors. The mobile device tracks the examinee's response times, error rates, and time outs (non-responses). The examinee is asked to cooperate and follow instructions. If the examinee is non-compliant, this is reported in the "Results" section above as a failed test.

**Protocol:** This test used an Audio Multi-Issue Comparison Test (MCT) protocol. The original MCT was developed for the U.S. federal government to be potentially used for testing at border crossings (Jewell, 2016). There were three relevant issues. One issue was used as a comparison question (CQ) with a low probability of guilt. Knowing the examinee would likely not react significantly to the CQ, it was used to create a within-subject comparison. Test questions were designed using scientific methods by a test writer or examiner. In this test, True/False statements about the relevant topics were randomly presented. The test used the CQ as the control question. If the examinee reacted more to any issue other than the CQ, the examinee would be classified as deceptive (not credible) for that issue. If there was little or no difference in reactions to the relevant issues vis-à-vis the CQ, the examinee would be classified as credible (truthful). Each issue was scored individually.

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## 3. Test Results Details

### 3.1 What do the results indicate?

As detailed in the Methodology Section above, ATW Lie Detection Solutions credibility scores range between 0% and 100%. Recognizing that these scores are a continuous variable, the science suggests break points for the strength of an answer either as credible or deceptive. The following table indicates these strengths:

Range	Outcome
0-30%	Strongly deceptive (strong reaction)
31-44%	Deceptive (medium reaction)
45-55%	Indeterminate (neither truthful nor deceptive)
56-69%	Truthful (weak reaction)
70-100%	Strongly truthful (no reaction)

It is rare for truthful questions to score above 85%. In multi-topic tests some questions might score higher or lower than others. This does not necessarily mean that the question is “less truthful” or “more deceptive” than another question. Each question should be evaluated on its own merits

Low quality video or audio test data, along with other situational factors can lead to lower scores and accuracy. **ATW Lie Detection Solutions tests should not be used as the sole method for determining credibility.**

### 3.2 Comparison Questions

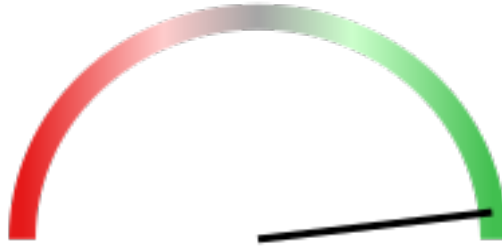
Comparison questions are used to establish baseline truth, as explained in the **Methodology Section**. In addition to being asked versions of the topic question chosen by the test creator, the test taker is also asked questions regarding comparison scenarios that the test taker was statistically unlikely to have been involved in. **If the test taker has been involved in the comparison question activity, the test will be inaccurate and will need to be retaken with different comparison questions.**

**Your comparison questions are:**

I. As to the issue of me lying under oath, I have never done that.

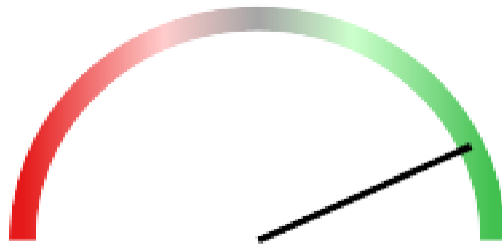
# Truth Verification Test Report

## 3.3 Topic Questions



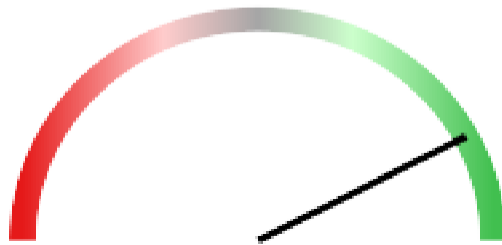
As to submitting false degree papers with my application, I did not.

**CREDIBLE - TRUTHFUL (96%)**



As to stealing items from a past employer, I did not do that.

**CREDIBLE - TRUTHFUL (86%)**



As to disciplinary actions at a previous job, I did report any.

**CREDIBLE - TRUTHFUL (84%)**

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## 4. Video Data Quality

**What is Video Data Quality?** Data quality refers to the aggregate quality of the video received from the test taker during the administration of the test. The quality of this score is primarily determined by the quality of the images of the eyes received.

The test requires a clear view of the pupils and the sclera of the eye. The test takes 5,000 pictures of the eyes during each test. **At least 70%** of the pictures need to have a high enough pixel resolution for the algorithm to score the test.

**Video Data Quality Score For This Test: 93%**

## 5. Audio Data Quality

**Audio Data:** The test requires clear answers for each test question. Questions can be answered with “True/False” or “Yes/No”.

The test categorizes each answer as either recognized, unexpected, unanswered, or unrecognized.

- Recognized answers are those that match the expected answer. For example, the test hears “true” or “yes” when that is the expected answer.
- Unexpected answers are the opposite of recognized. These are answers the test understands, but does not expect, such as hearing “true” when it expects to hear “false.”
- Unanswered questions are questions the test does not register or “hear”.
- Unrecognized answers are those that the system “hears” but does not understand.

The algorithm cannot score the test if **more than 40%** of the questions are unrecognized or unanswered.

If too many **answers are unexpected, the test is scored as a probable confession.**

- Probable Confession – when 70% or more of the verbal answers were unexpected, per topic.
- Random – when 40% or more of the verbal answers were unexpected, per topic.

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## 6. Summary of Examinee Answers

### 6.1 Definitions

**Unexpected answers** are opposite of what we expect, which is that the test taker is innocent. If the test taker answered opposite of what we expected, we categorize that answer as a confession. If this happens frequently we flag the test as Not Credible due to Probable Confession.

**Unanswered questions** are those the test taker did not answer.

**Unrecognized answers** are those the test did not recognize. A large number of unrecognized answers flags the tests as invalid.

### 6.2 Summary of Examinee Answers

	Submitting false degree papers with application	Taking items of value from past employer without permission	Not reporting disciplinary actions at previous job	Lying under oath (perjury)
Unexpected answers	10%	5%	5%	5%
Unanswered questions	0%	0%	0%	0%
Unrecognized answers	15%	10%	15%	0%



# Truth Verification Test Report

## 7. Pre-Test Instructions

The test taker was given this set of instructions before taking the test:

This test will ask about the following topics: (1) First, it will ask if you have ever lied under oath. This is called perjury, and it is a serious crime.

Second, it will ask if you submitted false degree papers with your job application.

In this test, "degree papers" means documents that prove your academic and professional qualifications, credentials, degree classifications, or grades.

Third, it will ask if you have taken items of value from a past employer.

In this test, "items of value" means items worth more than \$50, taken without permission, such as cash, merchandise, products, equipment, raw materials, or supplies.

In this test, taking items of value without permission from a previous job is considered stealing.

Fourth, it will ask if you have not reported any disciplinary actions at your previous job.

In this test, "disciplinary action" means being fired or terminated, suspended, or given a written warning.

In this test, if you had any past disciplinary actions at a previous job and did not report them, that is considered lying.

In summary, the test will ask if you: (1) have ever lied under oath or committed perjury, (2) have submitted false degree papers with your job application,

(3) have taken items of value from a past employer without permission, and (4) have not reported any disciplinary actions at your previous jobs.

You will start with a practice test to help you get comfortable with the testing process on the phone.

When answering questions, say either True or False. The phone will beep to indicate that it recorded your answer. If you do not hear a beep, please talk louder and clearer. Be sure to look a few inches above the phone camera.

In this test, you must answer questions quickly. If you do not respond quickly, or if the phone does not detect your answer, you will hear a "Time Limit Expired" message.

You will now take the practice test. To begin, say the word, Start.

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## 8. Answers to all questions

### 8.1 Submitting false degree papers with application

Question	Expected Answer	Actual Answer
As to submitting false degree papers with my application, I did not.	Yes	Yes
As to submitting false degree papers with my application, I did not.	Yes	Yes
Regarding submitting false degree papers with my application, I have not.	Yes	Yes
Regarding submitting false degree papers with my application, I have not.	Yes	Yes
On submitting false degree papers with my application, I never did.	Yes	Yes
On submitting false degree papers with my application, I never did.	Yes	Yes
Speaking of submitting false degree papers with my application, I haven't.	Yes	No
Speaking of submitting false degree papers with my application, I haven't.	Yes	Yes
About submitting false degree papers with my application, I didn't.	Yes	Yes
About submitting false degree papers with my application, I didn't.	Yes	Yes
As to submitting false degree papers with my application, I did that.	No	No
As to submitting false degree papers with my application, I did that.	No	No
Regarding submitting false degree papers with my application, I did.	No	Yes
Regarding submitting false degree papers with my application, I did.	No	No
On submitting false degree papers with my application, I am guilty.	No	Unrecognized answer
On submitting false degree papers with my application, I am guilty.	No	Unrecognized answer
Speaking of submitting false degree papers with my application, I did.	No	No
Speaking of submitting false degree papers with my application, I did.	No	No
About submitting false degree papers with my application, I am guilty.	No	No
About submitting false degree papers with my application, I am guilty.	No	Unrecognized answer

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## 8.2 Taking items of value from past employer without permission

Question	Expected Answer	Actual Answer
As to stealing items from a past employer, I did not do that.	Yes	Unrecognized answer
As to stealing items from a past employer, I did not do that.	Yes	Yes
Regarding stealing items from a past employer, I have not stolen.	Yes	Yes
Regarding stealing items from a past employer, I have not stolen.	Yes	Yes
About me stealing items from a past employer, I never did that.	Yes	Yes
About me stealing items from a past employer, I never did that.	Yes	Yes
Speaking of stealing items from a past employer, I am innocent of that.	Yes	Yes
Speaking of stealing items from a past employer, I am innocent of that.	Yes	Yes
With regards to stealing items from a past employer, I did not steal.	Yes	Yes
With regards to stealing items from a past employer, I did not steal.	Yes	Unrecognized answer
As to stealing items from a past employer, I admit to doing that.	No	No
As to stealing items from a past employer, I admit to doing that.	No	No
Regarding stealing items from a past employer, I am guilty of that.	No	No
Regarding stealing items from a past employer, I am guilty of that.	No	No
About me stealing items from a past employer, I did do that.	No	No
About me stealing items from a past employer, I did do that.	No	No
Speaking of stealing items from a past employer, I am guilty of it.	No	Yes
Speaking of stealing items from a past employer, I am guilty of it.	No	No
With regards to stealing items from a past employer, I did that.	No	No
With regards to stealing items from a past employer, I did that.	No	No

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## 8.3 Not reporting disciplinary actions at previous job

Question	Expected Answer	Actual Answer
As to disciplinary actions at a previous job, I did report any.	Yes	Unrecognized answer
As to disciplinary actions at a previous job, I did report any.	Yes	No
Regarding disciplinary actions at a previous job, I did report it.	Yes	Yes
Regarding disciplinary actions at a previous job, I did report it.	Yes	Yes
Concerning disciplinary actions at a previous job, I have reported any.	Yes	Yes
Concerning disciplinary actions at a previous job, I have reported any.	Yes	Yes
Speaking of disciplinary actions at a previous job, I did disclose it.	Yes	Yes
Speaking of disciplinary actions at a previous job, I did disclose it.	Yes	Yes
About any disciplinary actions at a previous job, I have reported it.	Yes	Yes
About any disciplinary actions at a previous job, I have reported it.	Yes	Yes
As to disciplinary actions at a previous job, I lied about that.	No	Unrecognized answer
As to disciplinary actions at a previous job, I lied about that.	No	No
Regarding disciplinary actions at a previous job, I lied about it.	No	No
Regarding disciplinary actions at a previous job, I lied about it.	No	No
Concerning disciplinary actions at a previous job, I was dishonest.	No	No
Concerning disciplinary actions at a previous job, I was dishonest.	No	Unrecognized answer
Speaking of disciplinary actions at a previous job, I lied about that.	No	No
Speaking of disciplinary actions at a previous job, I lied about that.	No	No
About disciplinary actions at a previous job, I was not honest.	No	No
About disciplinary actions at a previous job, I was not honest.	No	No

# Truth Verification Test Report

## 8.4 Lying under oath (perjury)

Question	Expected Answer	Actual Answer
As to the issue of me lying under oath, I have never done that.	Yes	Yes
As to the issue of me lying under oath, I have never done that.	Yes	Yes
Regarding the issue of lying under oath, I have not ever done that.	Yes	Yes
Regarding the issue of lying under oath, I have not ever done that.	Yes	Yes
Concerning the issue of lying under oath, never have I done it.	Yes	Yes
Concerning the issue of lying under oath, never have I done it.	Yes	Yes
On whether I have lied under oath, I am not guilty of doing that.	Yes	Yes
On whether I have lied under oath, I am not guilty of doing that.	Yes	Yes
Speaking of whether I have lied under oath, I never have done that.	Yes	Yes
Speaking of whether I have lied under oath, I never have done that.	Yes	No
As to the issue of me lying under oath, I have done that in the past.	No	No
As to the issue of me lying under oath, I have done that in the past.	No	No
Regarding the issue of lying under oath, I admit to doing that.	No	No
Regarding the issue of lying under oath, I admit to doing that.	No	No
Concerning the issue of lying under oath, I am guilty of doing that.	No	No
Concerning the issue of lying under oath, I am guilty of doing that.	No	No
On whether I have lied under oath, that is something I have done.	No	No
On whether I have lied under oath, that is something I have done.	No	No
Speaking of whether I have lied under oath, I admit to lying.	No	No
Speaking of whether I have lied under oath, I admit to lying.	No	No