

ЛАБОРАТОРИЯ
ЦИФРОВЫХ
ИССЛЕДОВАНИЙ

МКО
СИСТЕМЫ

Automated government systems under the forensic computer expert's microscope:

problems and solutions

MOSCOW FORENSICS DAY '25

11-12 September 2025
Pulsar Space

ЛАБОРАТОРИЯ ЦИФРОВЫХ ИССЛЕДОВАНИЙ

We are a team of professional experts in applying specialized IT knowledge in court proceedings

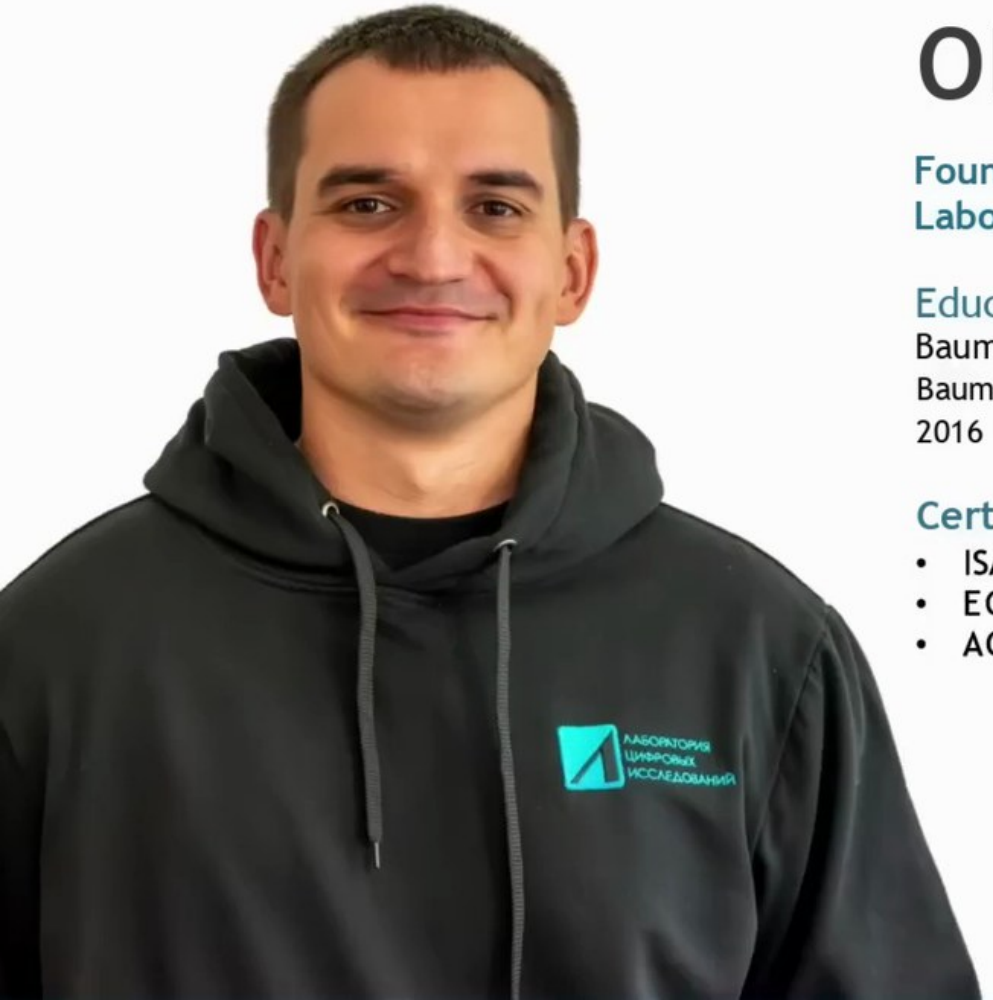
Our experts are people who stood at the origins of forensic computer examination in Russia, international professionals in computer forensics, information security and the disclosure of digital data in court, PhDs and lecturers at the country's leading technical universities

Since 2016 we have carried out complex computer-technical examinations and advised on applying IT knowledge in court proceedings

Since 2024 we develop IT solutions for comparing the source code of computer programs

Since 2025 we are an IT company (No. 70081 in the register of accredited organizations)

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Oleg Bezik

Founder and CEO of Digital Research Laboratory

Education:

Bauman MSTU, Forensic Science, specialist degree, 2014
Bauman MSTU, Information Technology, master's degree, 2016

Certificates:

- ISACA’s Certified Information Security Manager (CISM)
- EC-Council’s Computer Hacking Forensic Investigator (CHFI)
- ACEDS's Certified E-Discovery Specialist (CEDS)

What is an AS

Automated system -

a system consisting of personnel and a set of tools automating their activity, implementing the information technology for performing established functions

Per GOST 34.003-90

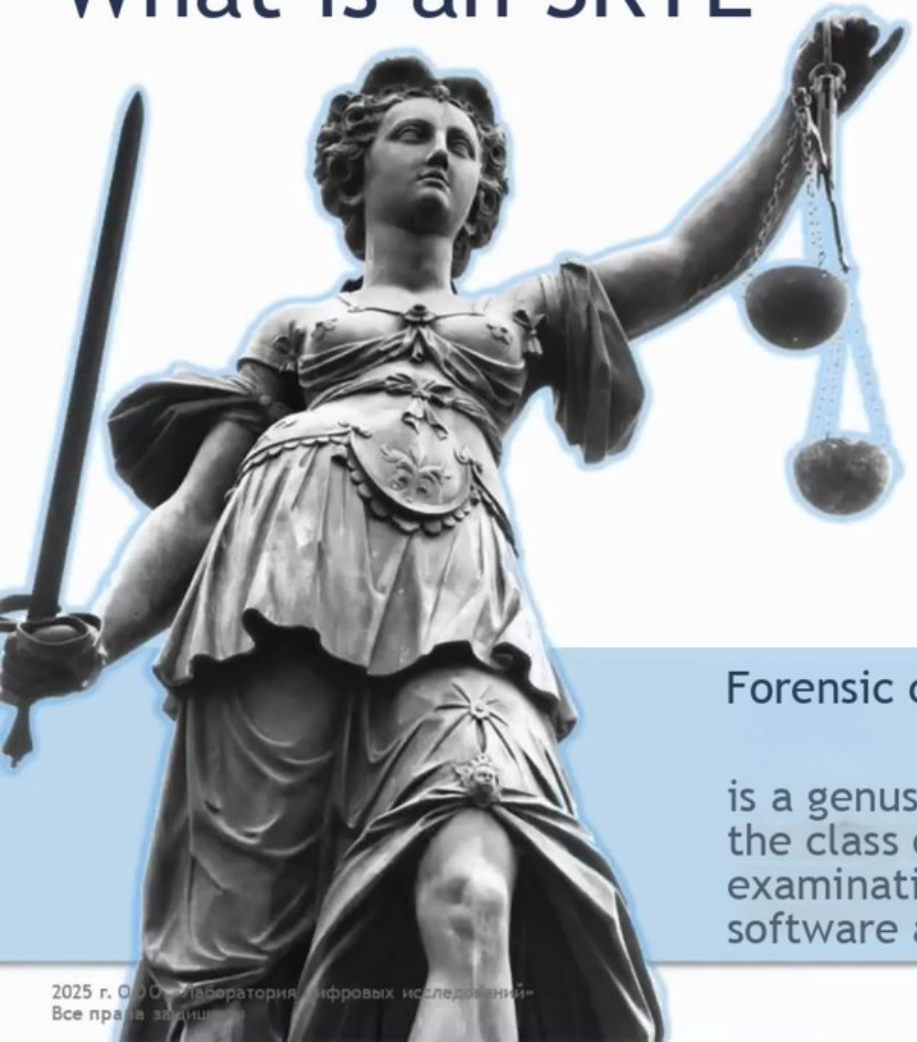
Well-known examples:

- **GAS Gosuslugi**
- GAS Pravosudie
- GAS Legal Statistics
- **GAS Vybory**
- **ASK NDS**
- Unified Biometric System
- Unified Information System for Procurement



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What is an SKTE



Forensic examination

1. a procedural action
2. appointed by an authorized body (court, investigator, inquiry officer)
3. is an examination and the preparation of an expert report on the questions put
4. the expert report has the force of evidence
5. requires specialized knowledge in some field of science, technology, art or craft

It is a way of bringing specialized non-legal knowledge into court proceedings

Forensic computer examination (SKTE) -

is a genus of forensic examinations, belongs to the class of engineering and technical examinations, performed on digital data, software and computer hardware

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When an AS SKTE is needed



Commercial court cases

Cases on the recovery of funds	
Purpose of the SKTE:	1) Check that the work to develop/modify the AS meets the contract/agreement requirements 2) Determine the cause of failure of the AS or of its individual components and modules 3) Determine whether critical or irremediable defects are present 4) **Assess the cost of the completed/uncompleted work on developing the AS** 5) Assess the cost of remedying the AS defects
Example cases:	• **A40-4549/23-27-32** • **A40-278316/21-114-2040** • **A40-210136/22** • **A07-10804/19** • **A40-41613/24-126-318** • **A40-238914/22-5-1798** • **A40-196951/2023**

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Sample questions for an AS SKTE

- Do the work results delivered to the customer meet the requirements of the state contract/agreement, the technical specification and the detailed specification?
- What is the cost of the work actually performed that meets the contract/agreement requirements?
- If there are defects, are they critical?
- If there are defects, are they remediable/irremediable? How much money will be needed to remedy such defects?
- What amount of the contract/agreement price covers work of inadequate quality?

Critical defect -
a defect whose presence makes using the product for its intended purpose practically impossible or impermissible*

Irremediable defect -
a defect whose remedying is technically impossible and economically expedient*

* * Per GOST 15467-79

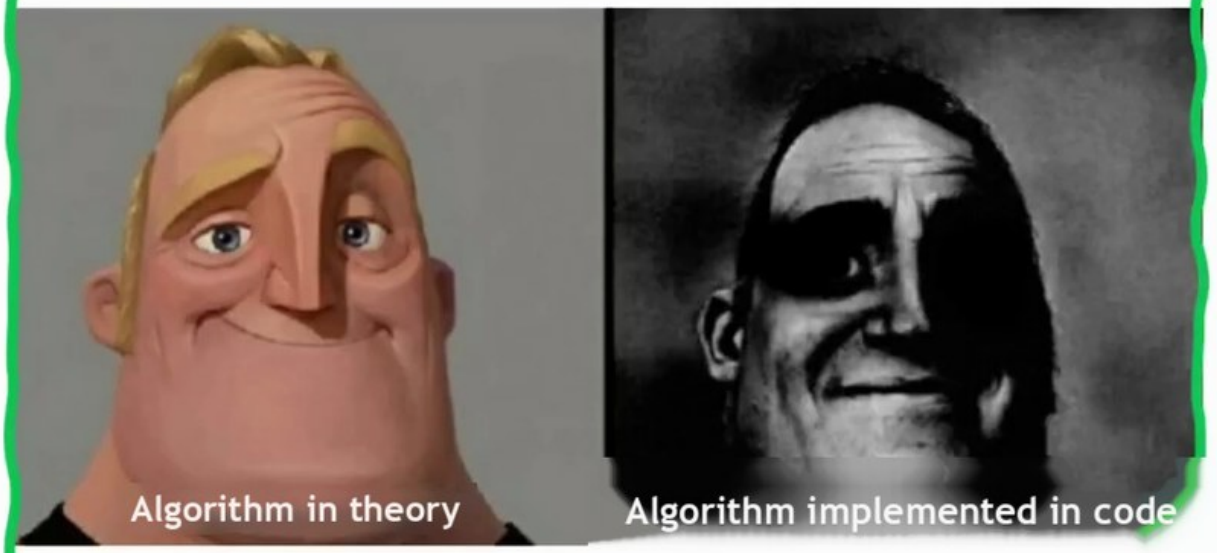
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Difficulties in examining an AS

№ 1

No common methodologies - always creativity



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Difficulties in examining an AS

№ 2

Huge volume of objects to examine



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Difficulties in examining an AS

№ 3

Examination is held in person and can last very long



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Tips for preparing for an AS SKTE

1

Prepare the objects for examination

- The contract/agreement text
- AS documentation
- AS source code
- The running AS

2

Prepare questions for the expert

- Questions on the AS meeting the contract/agreement requirements
- Questions on the defects present: critical, irremediable
- Questions on the cost of the work done/of the rework

3

Choose the experts

- Experts have the relevant education
- Experts have the relevant experience



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CHECKLIST

On preparing for a forensic computer examination of an automated system

