

# CURRICULUM VITAE

## 1. Personal information

**First name:** Elovenko  
**Surname:** Denis  
**Date of birth:** 3 January 1987  
**Nationality:** Russia

E-mail: [elovenko03@gmail.com](mailto:elovenko03@gmail.com)  
[elovenkoda@mail.ru](mailto:elovenkoda@mail.ru)

## 2. Education:

<i>Place:</i>	Irkutsk state technical university
<i>The training period:</i>	09.2004 – 06.2009
<i>The diploma:</i>	Higher education (Specialist). Technology of mechanical engineering.

<i>Place:</i>	Irkutsk national research technical university / Baikal state university
<i>The training period:</i>	10.2009 – 05.2010 / 06.2010 – 08.2012
<i>The diploma:</i>	Degree of Candidate of Technical Sciences. Mathematical simulation, numerical methods and program system.

<i>Place:</i>	Irkutsk state university
<i>The training period:</i>	09.2013 – 08.2015
<i>The diploma:</i>	Master's Degree. Management.

<i>Place:</i>	Baikal state university
<i>The training period:</i>	09.2014 – 06.2017
<i>The diploma:</i>	Master's Degree. Personnel management.

## 3. Qualifications

- October 2015 – March 2016; DAAD "Mikhail Lomonosov. Line A", internship, TU-Chemnitz, Germany;
- December 2016; "Technique and technology of experimental research of thermophysical properties of insulating materials under pressure", internship, Irkutsk, Russia;

- April 2017; "University Management", training, Moscow, Russia;
- May 2017 – June 2017; "The operational experience is studying of technical regulation and metrology in the Irkutsk Center of Standardization, Metrology and Testing", internship, Irkutsk, Russia;
- October 2017 – December 2017; "Project management", training, INRTU, Irkutsk, Russia;
- January 2018 – February 2018; "Standards of the organization are development for the manufacture of engineering products", internship, Irkutsk, Russia;
- March 2018 – April 2018; "Training in the skills of first aid for pedagogical workers", training, INRTU, Irkutsk, Russia;
- March 2018 – April 2018; " Organization of the educational process for the main professional programs using the electronic information and educational environment", training, INRTU, Irkutsk, Russia.
- October 2019 – March 2020; DAAD "Mikhail Lomonosov. Line A", internship, TU-Chemnitz, Germany.
- April 2021 – Received the academic title of Associate Professor of the Higher Attestation Commission of the Russian Federation.
- Academic English. English for academic purposes. Basic level B2, "INRTU", 2021.
- University Transformation Projects: Models and Mechanisms, Moscow School of Management SKOLKOVO, 2022.
- Communication 2.0. Communication skills development program. 2023.
- September 2023; DAAD "Research Stays for University Academics and Scientists", internship, Otto-von-Guericke-Universität Magdeburg, Germany.

#### 4. Work experience:

<i>Dates: from (month.year) to (month.year)</i>	6.2008 – 9.2010
<i>Place:</i>	Irkutsk, Russia
<i>Firm:</i>	JSC «IrkutskNIIhimmash»
<i>Appointment:</i>	Engineer; engineer third category
<i>Description:</i>	The engineering analysis and calculations on durability of vessels, devices and installations of chemical and petro-chemical manufactures
<i>Dates: from (month.year) to (month.year)</i>	02.2013 – nowadays
<i>Place:</i>	Irkutsk, Russia
<i>Firm:</i>	Irkutsk national research technical university
<i>Appointment:</i>	The senior Lecturer; Programmer. Since 01.09.2016 Associate Professor of the Institute of Aircraft Engineering and Transport, Irkutsk National Research Technical University. Employment contract until 2027.

#### 5. Personal qualities

- Responsible
- Determined
- Initiative
- Consistent

## 6. Actual publications on the topic of scientific research (project)

1. Elovenko D.A. Future directions of the development of high-pressure autoclaves / D.A. Elovenko // Scientific journal "The herald of Irkutsk State Technical University.", № 1(41) – Irkutsk, 2010. – P. 277 – 279.
2. Elovenko D.A. Analysis of stress state of elastic half-plane loaded with constant pressure at limited intermediate sections with specified period by finite element method based on MSC.MARC software / D.A. Elovenko, O.V Repetskiy // Scientific journal "Izvestiya Irkutsk State Economic Academy." № 5 (79) – Irkutsk, 2011. – P. 171 – 175.
3. Elovenko D.A. On rational design of distance plates of heating elements in high-pressure autoclaves / D.A. Elovenko, O.V Repetskiy // Scientific on-line journal. "Izvestiya Irkutsk State Economic Academy." № 5 – Irkutsk, 2011.
4. Elovenko D.A. Analysis of thermophysical properties of heat insulation materials for new constructions of cylindrical walls in high-pressure autoclaves / D.A. Elovenko, O.V Repetskiy // Scientific journal "Izvestiya Irkutsk State Economic Academy." № 6 (80) – Irkutsk, 2011. – P. 201 – 206.
5. Elovenko D.A. On issue of calculation of cylindrical walls with inbuilt heating elements in high-pressure autoclaves / D.A. Elovenko, O.V Repetskiy // Scientific on-line journal. "Izvestiya Irkutsk State Economic Academy." № 1 – Irkutsk, 2012.
6. Elovenko D.A. The research of enclosure under pressure with heating element installed in wall with heat insulation material layer / P.G. Pimshtein, D.A. Elovenko, A.D. Tatarinov. // Scientific journal "Modern technologies. System analysis. Modeling.", № 4 (32) – Irkutsk, 2011. – P. 17 – 22.
7. Elovenko D.A. Contact interaction analysis of rigid stamp with elastic half-plane by finite elements method based on MSC.MARC software / O.V Repetskiy, D.A. Elovenko // Scientific journal "The herald of East-Siberian State University of Technology.", № 1(36) – Ulan-Ude, 2012. – P. 37 – 40.
8. Elovenko D.A. Study of elastic characteristics of heat insulation materials for cylindrical walls in high-pressure autoclaves / D.A. Elovenko, P.G. Pimshtein, O.V Repetskiy, A.D. Tatarinov // Scientific journal "Izvestiya Irkutsk State Economic Academy." № 2 (82) – Irkutsk, 2012. – P. 177 – 182.
9. Elovenko D.A. Mathematical modeling of stress-strain state of cylindrical wall with embedded heating elements and heat-insulation material in high-pressure autoclaves and analysis of its working ability parameters / D.A. Elovenko, O.V Repetskiy // Scientific on-line journal. "Izvestiya Irkutsk State Economic Academy." № 2 – Irkutsk, 2012.
10. Elovenko D.A. Experimental researches of autoclave model an for hydrothermal synthesis of minerals / D.A. Elovenko, P.G. Pimshtain, O.V. Repetsky, D.V. Tatarinov // International journal " The herald of the Baikal Union of Grant-aided students DAAD". – 2010. – № 1 (7) – P. 11 – 19.
11. Elovenko D.A. Developing of program for calculating the temperature fields and stresses in the multilayer wall of a pressure vessel / D.A. Elovenko The application of mathematical methods and information technology in the economy: Collection of scientific works – Irkutsk: Publishing BNUEL 2010. – P. 11 – 19.
12. Elovenko D.A. Investigations of distance plates of heating elements and their design parameters and stress state of the central wall interaction in the new construction of high-pressure autoclaves / D.A. Elovenko, O.V. Repetsky // International journal " The herald of the Baikal Union of Grant-aided students DAAD". – 2011. – № 1 (8) – P. 25 – 27.
13. Elovenko D.A. The influence of distance plates analysis of heating elements on unevenness of the stress state of a bearing wall of the high-pressure vessel by finite element method based on MSC.MARC software / D.A. Elovenko, P.G. Pimshtein, O.V Repetskiy // Information Technologies and mathematical modeling of complex systems. – Irkutsk: IITM ISURE, 2011. – P. 79 – 83.
14. Elovenko D.A. Program complex for calculation and the analysis of cylindrical walls of autoclaves of a high pressure with the built-in heating elements and a thermal insulation / D.A. Elovenko // Problems and prospects of information technology systems based on free software: Proceedings of International scientific conference / Ed. Ed. A.P. Sukhodolov, D.I. Sachkov, Z.V. Arkhipova. - Irkutsk: Publishing BNUEL, 2012. P. 38 – 44.
15. Elovenko D.A. Numerical methods for calculating the stress state of high-pressure autoclaves with multilayer cylindrical walls / D.A. Elovenko, O.V. Repetsky // International journal "The herald of the Baikal Union of Grant-aided students DAAD". – 2012. – № 1 (9) – P. 18 – 27.
16. Elovenko D.A. Calculation and experimental analysis of the strength of composite housing assembly autoclave: the constructions of cylindrical walls with embedded heating elements and heat-insulating material is researched / D.A. Elovenko, O.V. Repetsky // Lambert Academic Publishing. – 2012. – 249 P.
17. Elovenko D.A. The finite element mesh of high-quality is created and checked in Patran / D.A. Elovenko // Educational literature by MSC.Software Corporation in Russian

18. Elovenko D.A. The methods of rational editing of cad models on the stages of analysis in the CAE-systems / D.A. Elovenko, V.V. Mironenko // International journal "The herald of the Baikal Union of Grant-aided students DAAD". – 2013. – № 1 (10) – P.26 – 34.
19. Elovenko D.A. The concept of complex management system of teaching and research laboratories in universities, and an example of its implementation in ISTU / D.A. Elovenko, N.F. Kniazuk // International journal "The herald of the Baikal Union of Grant-aided students DAAD". – 2014. – № 1 (11).
20. Elovenko D.A. Development of the personnel potential of IrGTU in conditions of the national research university / D.A. Elovenko, N.A Smirnova // Collection of the conference of the 7th Baikal personnel forum. – BGUEP. – 2015.
21. Elovenko D.A., Knyazuk H.F. Development and application of the EFQM model for self-assessment of activities of non-state academic institution. Baikal Research Journal, 2015, vol. 6, no. 4. DOI: 10.17150/2411-6262.2015.6(4).21. URL: <http://brj-bguep.ru/reader/article.aspx?id=20277>
22. Elovenko D.A., Kovyrshin S.V. Creation of nets finite element models in Patran: a tutorial. – Irkutsk: Ir-GUPS, 2015. – 108p.
23. Elovenko D.A., Knyazyuk N.F. Principle of personnel segmentation in self-assessment and improvement of personnel management in the non-state university. Baikal Research Journal, 2017, vol. 8, no. 4. DOI: 10.17150/2411-6262.2017.8(4).13. URL: <http://brj-bguep.ru/reader/article.aspx?id=21901>
24. Elovenko D.A. Strategic types of management of organizational changes and experience of their application in universities/ D.A. Elovenko, N.F. Kniazuk // International journal "The herald of the Baikal Union of Grant-aided students DAAD". – 2015. – № 1 (12).
25. Elovenko D.A. Modeling of the shaping of the main bearing part of multilayer cylindrical walls of high pressure autoclaves / Aviamashinostroenie and transport of Siberia: coll. Articles VII All-Russian scientific-practical. Conf. (Irkutsk, April 13-16, 2016) - Irkutsk: Publishing House of the Russian Academy of Sciences, 2016. - P. 274-278.
26. Elovenko D.A. Analysis of the stress state of a multilayer support of a cylindrical wall of a pressure vessel formed at various technological parameters. In the collection: The life cycle of structural materials (from receipt to disposal). Proceedings of the VI All-Russian Scientific and Technical Conference with international participation. 2016. P. 449-453.
27. Elovenko D.A. Modeling of the formation of multilayer cylindrical structures in MSC. Marc Mentat and features of the analysis of their stressed state / Educational-methodical literature MSC.Software Corporation in Russian. - 2016 - 33 p. Electron. print version. pub. – URL: <http://www.mscsoftware.ru/manuals>
28. Elovenko D.A., Kolesnikov A.V. Modeling of the process of superplastic forming of sheet metal with subsequent calculation of strength (taking into account changes in the thickness of the part in the manufacturing process) / Teaching-methodical manual. Educational-methodical literature MSC.Software Corporation in Russian. – 2016 – 35 p. Electron. print version. pub. – URL: <http://www.mscsoftware.ru/manuals>.
29. Elovenko D.A., Kostin P.N. Modeling of the technological process of forming multilayer cylindrical structures along the Archimedes spiral on the basis of planar finite element models / International journal "The herald of the Baikal Union of Grant-aided students DAAD". – 2016. – № 1 (13).
30. Elovenko D.A. Creation of qualitative finite element mesh for models of complex spatial form in the MSC.Patran software package. – Irkutsk: INRTU publishing house, 2017. – 156 p.
31. Ozernikova T.G., Elovenko D.A. Problems of introducing the professional standard in the labor activity system for university faculty members. Baikal Research Journal, 2017, vol. 8, no. 2. DOI: 10.17150/2411-6262.2017.8(2).32. URL: <http://brj-bguep.ru/reader/article.aspx?id=21488>
32. Elovenko D.A. Features of the development and implementation of the professional standard of the university teacher / Economics. Right. Management: Sat. tr. Baikal State University. – Irkutsk: Publishing house of the Baikal State University. URL: <http://izdatelstvo.bgu.ru/epm>. – ISSN 2313-0628
33. Elovenko D.A., Mukhtorova I.K. Modeling of technological process of laser welding of thin-walled cylindrical structures in the program complex Marc Mentat / Teaching-methodical manual. Educational-methodical literature MSC.Software Corporation in Russian. – 2017 – 37 p. Electron. print version. pub. – URL: <http://www.mscsoftware.ru/manuals>
34. Chichkov V.E., Elovenko D.A., Mukhtorova I.K. Modeling of the technological process of laser welding of thin-walled cylindrical structures. In the proceedings: Aviation engineering and transport of Siberia. Collection of articles of the IX All-Russian scientific and practical conference. INRTU. 2017. P. 275-279.

35. Elovenko D.A. Simulation of welding processes in MSC.Marc Mentat – Irkutsk: publishing house of INRTU, 2018. – 112 p.
36. Zenkov E.V., Elovenko D.A. Presentation of physical processes in special technical disciplines on the basis of modern computer technologies. / International journal "The herald of the Baikal Union of Grant-aided students DAAD". – 2017. – № 1 (14).
37. Elovenko D.A., Pisarevsky M.I. Modeling and analysis of technological process of welding of tank course. Youth proceedings of Irkutsk State Technical University. 2018. Vol. 8. № 2 (25). P. 27-32.
38. Elovenko D.A., Khusanov A.I. Modeling and analysis of technological process of welding of t-shaped pipe connection. Youth proceedings of Irkutsk State Technical University. 2018. Vol. 8. № 2 (25). P. 33-37.
39. Elovenko D.A., Shcheblitsky D.A. Use of ion electro-turbo-reactive engine in hyperloop. Youth proceedings of Irkutsk State Technical University. 2019. Vol. 9. № 1. P. 62-65.
40. Elovenko D.A., Kriulin D.U. Wind turbine usage at airfields. Youth proceedings of Irkutsk State Technical University. 2019. Vol. 9. № 1. P. 137-142.
- 41. D. Elovenko, A. Graf, V. Kräusel, A. Hirsch. Mathematic model for describing the stress-tension behavior of an autoclave with integrated heating element. Technologies for Lightweight Structures 2 (1) (2018), P. 1–13.**
- 42. D. Elovenko, A. Hirsch, V. Kräusel. Mathematical model of one and two-step methods calculation of thermal fields and stress-strain state of multilayer cylindrical constructions. Materials Today: Proceedings. №11 (2019) P. 494–503.**
43. Pimshtein P.G., Elovenko D.A. Mathematical justification of seamless ring joint efficiency of multilayer cylindrical shell bearing elements for pressure vessels and reactors. Proceedings of Irkutsk State Technical University. 2019. vol. 23, P. 271–284.
44. Ryzhikov I.N., Elovenko D.A., Beirou B. Development of mathematical models for sensitivity analysis of machine part vibrations. Proceedings of Irkutsk State Technical University. 2019. vol 23 (3), P. 472–480.
- 45. Elovenko D.A. Tendencies of development of formation technology of multilayer cylindrical structures and residual technological stress evaluation methods. Modern Technologies. System Analysis. Modeling. 2019. Vol. 62, No. 2, P. 48–58.**
46. D.A. Elovenko, D.P. Noskov, G.I. Valdimat, G.I. Valdimat, R.S. Sigov Method of local adaptation of finite element meshes in the study of VAT designs with small geometric elements. Youth proceedings of Irkutsk State Technical University. 2019. vol 9 (2), P. 11–17.
- 47. D. Elovenko, V. Kräusel. The study of thermal conductivity of asbestos cardboard and fire clay powder to assess the possibility of their application in prefabricated structures of cylindrical housings of pressure vessels. Materials Today: Proceedings. №19 (2019) P. 2389–2395.**
- 48. E. Zenkov, D. Elovenko. Deformation of Prismatic Samples of U-Shaped Grooves and Their Stress–Strain State. Lecture Notes in Mechanical Engineering. Proceedings of the 5th International Conference on Industrial Engineering (ICIE 2019). №1 (2020) P. 337-348**
- 49. D. Elovenko, V. Kräusel. The study of stress state uniformity along the thickness of the constructive element of housing high-pressure vessels deformed by conjugated elements of physical separation of heating elements embedded in the vessel housing. Lecture Notes in Mechanical Engineering. Proceedings of the 6th International Conference on Industrial Engineering (ICIE 2020) P. 323-334.**
- 50. D. Elovenko, V. Kräusel. Experimental determination of elastic properties of the loose materials in the field of high pressures after heating. Journal of Physics: Conference Series. 2020. № 1614. 012045.**
- 51. Patent. Disc sample for assessing the structural strength of the material. L.B. Tsvik, E.V. Zenkov, I.S. Bocharov, D.A. Elovenko. RU (11) 2 734 276 (13) C1.**
52. Dimov U.V., Elovenko D.A. Tolerance and measurement technology: workshop. – Irkutsk: Publishing house of INRTU, 2020. – 66 p.
53. Minaev F.M., Elovenko D.A. Estimation of the accuracy and increase in the speed of the computational process when using the fragmentation method and local adaptation of finite element models using the example of a three-dimensional model of a cavity in the form of a spheroid. Youth proceedings of Irkutsk State Technical University. 2021. Vol. 11. № 3. P. 7-13.
54. Minaev F.M., Elovenko D.A. Study of stress intensity and type of complex stress state in the area of the stress concentrator in the form of a V-shaped groove on flat disc samples. Part 1. Youth proceedings of Irkutsk State Technical University. 2021. Vol. 11. № 4. P. 7-11.

55. Minaev F.M., Elovenko D.A. Simulation of technological process of formation of a multilayer cylindrical structure and estimation of residual stress. Overview of approaches and methods. Innovative projects and technologies of machine-building industries. Proceedings of the fourth All-Russian scientific and technical conference. Omsk, 2021. P. 155-164.

56. Minaev F.M., Elovenko D.A. Development of a mathematical model of residual stresses in the bearing part of the multilayer cylindrical wall of the vessel housing, formed by pressing layers by expansion pressure. Youth proceedings of Irkutsk State Technical University. 2022. Vol. 12. № 1. P. 6-12.

57. Minaev F.M., Elovenko D.A. Analysis of torque data for tightening screw joints with a Metabo SSD 18 LTX 200BL impact screwdriver at different torque settings. Youth proceedings of Irkutsk State Technical University. 2022. Vol. 12. № 2. P. 246-251.

58. Nizamov I.V., Elovenko D.A. Overview of AutoML technology, available tools, application example and comparative analysis with the classic solution. Youth proceedings of Irkutsk State Technical University. 2022. Vol. 12. № 3. P. 468-475.

**59. Patent №2783366. Equipment for determining the thermal conductivity of materials under pressure. Pimshtein P.G., Elovenko D.A., K.A. Kuznetsov. 2022. RU (11) 2 783 366 (13) C1.**

60. Gordeev K.A., Elovenko D.A. Suspension reinforcement and lift for all-wheel drive vehicles Toyota Corolla, Corolla Axio, Corolla Fielder, Corolla Runx, Allion, Premio, Allex. Youth proceedings of Irkutsk State Technical University. 2022. Vol. 12. № 4. P. 668-696.

61. Gordeev K.A., Elovenko D.A. Method of simulation of SSS of multilayer cylindrical structures under pressure assembled with interlayer pretensions. Models of innovative solutions for increasing the competitiveness of domestic science. Collection of articles of the All-Russian scientific-practical conference with international participation. Ufa, 2022, P. 21-28.

62. Govorkov A.S., Elovenko D.A. The production environment as the basis of the digital enterprise. "Modern directions and prospects for the development of processing technologies and equipment in mechanical engineering 2022". The herald of modern technologies 2022, №2 (26). P. 10-16.

**63. Elovenko D.A., Gordeev K.A. Optimization of a multilayer cylindrical construction according to hoop stress criterion. Systems. Methods. Technologies. № 1(57). 2023.**

**64. Elovenko D.A., Pimshtein P.G., K.A. Kuznetsov. Laboratory complex for modeling and research of built-in thermal protection at the first stage of production of energy-efficient pressure vessel casings. iPolytech Journal. – Vol. 27. №1. 2023.**