




Summary


I am an Energy Engineer with a particular interest in low temperature technologies and high energy physics. During my previous education, research and internships experience I have got a broad knowledge about the sector. Now, my main goal is to dive deeper into the topics of my interest and receive more practical experience.

Education


- 2023 –  **M.Sc. Energy Engineering.**
University of Padua, Industrial Engineering department.
To the present moment, achieved 36 credits for such subjects as: Energy Systems, Applied Energy, Measurements and Instrumentation, Advanced Control Systems.
- 2022 – 2023  **M.Sc. Cryogenic equipment and technologies.**
Bauman Moscow State Technical University, Power Engineering department
Studied for the first semester and passed all the exams with the highest grades.
Then dropped out, as decided to continue education abroad.
- 2018 – 2022  **B.Sc. Refrigeration, Cryogenic Equipment And Life Support Systems.**
Bauman Moscow State Technical University, Power Engineering department
Thesis title: *Helium cryogenic cooling system with a capacity of 2 kW per 100-150 K.*
Diploma with honour.

Publications


Journal Articles

-  **D. Meleshkin**, S. Pochatkov, and I. Svetlov, "Vibrodiagnostics method for determining damage to composite materials," *Grand Mechanic*, no. 5, pp. 337–342, 2022. 🔗 URL:
<https://www.elibrary.ru/item.asp?id=48445134>.

Conference Proceedings



-  D. Ershov, A. Mironov, **D. Meleshkin**, S. Pochatkov, and I. Svetlov, "Methods of numerical analysis and vibration diagnostics for assessing deformations in mechanical systems," in *Students' scientific spring (2022)*, Moscow, Russia, 2022, pp. 22–24. 🔗 URL:
<https://www.elibrary.ru/item.asp?id=49480593>.

Working Experience





- 2021 – 2023  **Purchasing Manager.** LLC STATMED.
The main responsibilities included: market analysis, interaction with partners, organization of international purchases of various volumes.

Working Experience (continued)

Internships

- 2023  **Production practice at the Amur Gas Processing Plant.**
During the internship the operation of the natural gas purification, separation and liquefaction line, as well as the production of liquid helium, was studied.
- 2021  **Technological practice at the NPO Nauka enterprise.**
During the internship a technological process for manufacturing a pressure valve part was developed.

Skills

- Engineering 
 - Design and analysis of energy systems and devices, modelling and simulation;
 - Planning and carrying out an experiment, processing the results;
 - Entropy and exergy analysis;
 - Life Cycle Assessment;
 - Developing of the design documentation.
- Software 
 - Calculations: MATLAB, PTC Mathcad, MS Excel, Julia programming language;
 - Modelling and simulations: Simulink and Simscape, ANSYS, ASPEN HYSYS;
 - Design and documentation: Autodesk Inventor, Autodesk AutoCAD, CF-turbo;
 - Reporting and publishing: L^AT_EX, MS Word, MS PowerPoint, MS Visio, GIT.
- Language  Strong reading, writing and speaking competencies for English, proved by IELTS.
- Misc.  Academic research, working in groups, management skills.
Leadership experience: during the studying for the Bachelor's degree, I was elected head of the study group, held this honorary position until graduation and was awarded a special payment for it.