

**PERSONAL** **Liubomyr Ropyak**



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Sex Male

Date of birth **May 07, 1959**  
 Nationality Ukrainian

**WORK EXPERIENCE**

**DATES**

Scientific and pedagogical activity

**2019–till now** Professor of the Department of Computer Engineering, Ivano-Frankivsk National Technical University of Oil and Gas.

**1993–2019** Associate Professor of the Department of Oil and Gas Engineering Technology (later – the Department of Computer Engineering), Ivano-Frankivsk National Technical University of Oil and Gas.

**1992–1993** Scientific consultant of the Ivano-Frankivsk lease enterprise “PRESMASH”, Ivano-Frankivsk.

**1989–1992** Associate Professor, Department of Oil and Gas Engineering Technology, Ivano-Frankivsk Institute of Oil and Gas

**1987–1988** Senior Researcher at the Ivano-Frankivsk Institute of Oil and Gas.

**1987** Junior Researcher at the Ivano-Frankivsk Institute of Oil and Gas.

**1983–1986** Junior Researcher at the Moscow Institute of Petrochemical and Gas Industry named after Ivan Gubkin, Moscow.

**1982–1993** Trainee lecturer at the Moscow Institute of Petrochemical and Gas Industry named after Ivan Gubkin, Moscow.

**1981–1982** Research Engineer at the Ivano-Frankivsk Institute of Oil and Gas, Ivano-Frankivsk.

**1978–1981** Laboratory Assistant at the Ivano-Frankivsk Institute of Oil and Gas, Ivano-Frankivsk.

**EDUCATION AND TRAINING**

**DATES**

**2022** – Awarded the academic title of Professor of the Computer Engineering Department (Protocol No 04/635 of May 3, 2022);

**2018** – Defense of Doctoral Thesis “Scientific and technological bases of part manufacturing and product assembling, strengthened by plasma electrolytic oxidation of an aluminum layer” (Scientific consultant Shatskyi I. P.), in specialty 05.02.08 – Technology of mechanical engineering (specialized scientific council Д 64.050.12). National Technical University “Kharkiv Polytechnic Institute”, Kharkiv, 2018 (diploma DD No 008568).

**2005** – Awarded the academic title of Associate Professor of the Department of Oil and Gas Engineering Technology (certificate 02/III № 014913).

**1989** – Awarded the title of Senior Researcher in the specialty “Chemical resistance of steel and corrosion protection.” (certificate No CH № 059913)

**1986** – Defense of Candidate Thesis (PhD) “Evaluation of corrosion protection effectiveness by microelectrochemical method under different types of loads in hydrogen sulfide-containing media” (Scientific Supervisor Efremov A. P.), in specialty 05.17.14 – Chemical resistance of materials and corrosion protection (specialized scientific council K.070.01.01) in All-Union Research Institute of Natural Gases, Moscow (diploma TH No 100970).

**1983–1986** – Moscow Institute of Petrochemical and Gas Industry named after Ivan Gubkin, Moscow (post graduate student).

**1979–1980** – Military training as a pipeline engineer at the Ivano-Frankivsk Institute of Oil and Gas.

**1976–1981** – Ivano-Frankivsk Institute of Oil and Gas, major in machine-building technology, metal-cutting machines and tools; qualification – Mechanical engineer (diploma with honors Б-1 No 582486).

Training Courses

**2006** – State republican advanced training courses for managers and specialists on “Safety rules of gas supply systems”, Ivano-Frankivsk.

**1998** – University seminar on computer technology (Ivano-Frankivsk State Technical University of Oil and Gas).

PERSONAL SKILLS

Creativity, observation, critical thinking, curiosity, desire to learn, flexibility, innovativeness, logical thinking, problem solving, research skills, resourcefulness, thinking outside the box, tolerance of change and uncertainty, troubleshooting

MOTHER TONGUE(S)

Ukrainian

OTHER LANGUAGE(S) / SELF-ASSESSMENT

Common European Framework of Reference for Languages

Levels: Basic user A1 – Basic user A2 – Independent user B1 – Independent user B2 – Proficient user C1 – Proficient user C2

Polish, French, Russian (fluent).

UNDERSTANDING – Listening

Polish – A2, French – B1, Russian – C2

UNDERSTANDING – Reading

Polish – A2, French – B1, Russian – C2

SPEAKING – Spoken interaction

Polish – A2, French – B1, Russian – C2

SPEAKING – Spoken production

Polish – A2, French – B1, Russian – C2

WRITING

Polish – A1, French – B1, Russian – C2

CERTIFICATES

International internship at the Department of Fundamentals of Engineering at Politechnika Lubelská, Lublin (Republic of Poland), Certificate dated 22.12.2021.

Certificated by the National Agency for Higher Education Quality Assurance as an expert in educational program accreditation: online training, on 6.10.2019.

Distance learning course “Introduction to the Patent Cooperation Treaty”. The certificate was issued by the Worldwide Academy of the World Intellectual Property Organization, on 08.05.2020.

Distance learning course “Fundamentals of Intellectual Property”. The certificate was issued by the Worldwide Academy of the World Intellectual Property Organization, 27.04.2020.

COMPUTER SKILLS / SELF-ASSESSMENT

Confident user (Word, Excel, Kompas-3D, Statistics, 1C).

OTHER SKILLS

Driver's license categories B, C.

ADDITIONAL INFORMATION

PUBLICATIONS

Author of 202 scientific and educational works, including 5 monographs and 30 articles in the journals indexed in Scopus and Web of Science; 56 patents for inventions and utility models, 8 copyrights for computer programs.

PRESENTATIONS

The results of scientific works were demonstrated at the Exhibitions of Scientific Achievements, international exhibitions in Bulgaria and Poland.

PROJECTS AND GRANTS

Have completed 8 research projects (1988–2012) and participated in them as a Leading Researcher or Chief Researcher.

The projects funded by the general state budget Ministry of Education and Science of Ukraine:

– Development of scientific fundamentals of technical conditions of long-term operation metal structures according to the actual values of physical and mechanical

characteristics of their materials in terms of types and sizes of defects (0117U004216, 2013–2015), Researcher.

– Development of the innovative technology for polymer household waste disposal based on mechanical recycling (0117U004237, 2017–2019), Researcher.

– Development of dispersion-reinforced composite coatings for the parts and tools used in abrasive and aggressive environments (0117U004216, 2017–2018), Chief Researcher.

– Development of a comprehensive technology to improve the performance of mechanical engineering products by micro-arc oxidation (0119U002231, 2019–2020), Researcher.

– Development of environmentally friendly chrome plating technology in the flowing electrolyte of long parts with complex surface topology (Д-8-21-П (PK 0121U109591), 2021–2022), Chief Researcher.

– Development of structures and technologies for the manufacture, protection, and repair of threaded joints with improved performance (0122U002082, 2022–2023), dispositioning authority.

Scientific consulting and expert services for organizations and enterprises

– Limited Liability Company "Padana Chemical Compounds", Ivano-Frankivsk: Agreement № 6 dated 03.06.2019 "Provision of consultations on intellectual property, scientific and technical and consulting services".

– Private enterprise "Tool": Agreement No 5 dated May 15, 2019 "Provision of scientific and technical services, consulting services and intellectual property services".

– State Innovative Financial and Credit Institution, Kyiv:

1. Agreement No 09-29 dated November 14, 2019 Services related to the implementation of the Carrot Fleet project;

2. Agreement No 09-30 dated November 19, 2019 "Services related to the implementation of the project "Production of shells (bullets "Spider") of non-lethal action to smooth-bore firearms";

3. Agreement No 09-31 dated November 20, 2019 "Services related to the implementation of the project "Modernization of light filters to optoelectronic counteraction stations Adros type to protect helicopters from guided missiles of rockets with infrared homing heads";

4. Agreement No 09-32 dated November 21, 2019 "Services related to the implementation of the project "Save life";

5. Agreement No 09-34 dated December 06, 2019 "Services related to the implementation of a project to develop a modular exoskeleton for certain parts of the human body.

#### International Projects

– Project HUSKROUA / 1702 / 6.1 / 0022 "Regional Center for Training and Monitoring of Environmental Impacts of Electrical Installations", funded by the European Commission under the Joint Operational Program Hungary-Slovakia-Romania-Ukraine 2014-2020 (ENI CBC), Volunteer.

– Project grant from the East Europe Foundation for the establishment of a social school enterprise (project: CAD-print social school enterprise, donator: Eastern Europe Foundation; 15.02.2021–30.07.2021), Chief Project Manager.

#### International Scientific cooperation

Cooperation with the Belt and Road Initiative Institute for Chinese-European Studies (BRIICES), Guangdong University of Petrochemical Technology, Maoming (published 3 articles in Jornal Energies, 1 – Applied Sciences.)

#### CONFERENCES SEMINARS MAIN DIRECTIONS OF SCIENTIFIC RESEARCH

Scientific works were reported at 35 international conferences

Seminars of the Ivano-Frankivsk National Technical University of Oil and Gas

Mathematical modelling, development of technological processes of strengthening parts by coatings and assembling the products, experimental study of plasma electrolytic oxidation of parts, electrochemical chromium plating, nanomaterials, environmentally friendly and resource-saving technologies, corrosion and wear research, intellectual property.

#### HONOURS AND

– **2021** Gratitude of the Higher Education Quality Assurance Agency.

## Curriculum Vitae

- **2019** Laureate of the M. Volosovska nominal prize for inventive activity in the nomination "Cleverness in simplicity".
- **2019** Diploma of the Ivano-Frankivsk National Technical University of Oil and Gas for high achievements in scientific activities and on the occasion of the professional holiday – SCIENCE DAY.
- **2019** Winner's Diploma of the regional rating review "Galician Erudite–2018" in the nomination "Best scientist-inventor".
- **2017** Winner's Diploma of the regional annual award named after Gerasim Tersenov for the development of "Scientific and technical bases of strengthening parts by micro-arc oxidation of the aluminum layer" with the award of a badge (honorary award).
- **2014** Diploma of the Ivano-Frankivsk National Technical University of Oil and Gas for the conscientious and long-term work on the occasion of the 50th anniversary of the Departments of Computer Engineering and Mechanical Engineering.
- **2009** Diploma of the State Department of Intellectual Property of the Ministry of Education and Science of Ukraine with the award of the badge "Creator".
- **2007** Diploma of the Executive Committee of Ivano-Frankivsk City Council for inventive, innovative and scientific-educational activities.

## MEMBERSHIPS

- Member of the Specialized Academic Council for the Defense of Doctoral (Candidate) Dissertations D35.052.06 in the specialty 05.02.08 – Mechanical Engineering Technology of the National University "Lviv Polytechnic";
- Member of the branch expert council 13 – Mechanical engineering of the National Agency for Higher Education Quality Assurance.
- Chairman of the Trade Union Bureau of the Mechanical and Technological Faculty of the Ivano-Frankivsk National Technical University of Oil and Gas.
- Member of the Ivano-Frankivsk Regional Council of the Society of Inventors and Innovators.
- Chairman of the primary organization of inventors and innovators of the Ivano-Frankivsk National Technical University of Oil and Gas.

## REFERENCES

**ORCID:** <http://orcid.org/0000-0002-9374-2550>.

**SCOPUS:** AU-ID 6507116986 (49 documents; 879 citations; h-index: 22).

**Web of Science:** AAU-1666-2021 (26 documents; 282 citations; h-index: 12).

SCIENTIFIC  
SUPERVISING AND  
OPPOSITION OF PHD  
AND/OR DOCTORAL  
THESES

He was the scientific supervisor of three defended PhD theses in technical sciences in the specialty 05.02.08 – mechanical engineering technology:

- Shulyar I.O. Improving the efficiency of the technological process of centrifugal reinforcement of rock-destroying elements of drill bits (17.01.2014);
- Kustov V.V. Improving the quality of surface surfaces by forming composite coatings by a complex method (15.12.2015);
- Pryhorovska T.O. Technological assurance of the quality of production of drilling bits of cutting and erasing action (27.09.2021).

Scientific consultant for the degree of Doctor of Technical Sciences in specialty 132 – Materials Science: Prysyazhnyuk P.M. Scientific basis for the formation of wear-resistant coatings of the system "high manganese steel - refractory compounds".

Supervisor of postgraduate students for the degree of Doctor of Philosophy (PHD) in the specialty:

- 131 – Applied Mechanics Shovkoplias M.V. Increasing the service life of the cylinder-piston pair of drilling pumps;
- 131 – Applied Mechanics Romaniv M.M. Improving the technology of forming microarc oxide coatings to improve the surface quality of parts;
- 105 – Applied Physics and Nanomaterials Malinin V.Yu. Influence of high-frequency shock treatment and oxidation on the structural state and properties of surface layers of alloys based on aluminum and titanium.

Opponent of 5 candidate dissertations and an opponent of 5 doctoral dissertations