

Europass curriculum vitae



Personal information

First name / Surname

Aleksandrs Urbahs, Dr. hab. sc.ing.

Address(es)

1, Kalku str., LV-1658, Rīga, LATVIA

Telephone(s)

(+371) 67089948

Mobile: (+371) 26464774

Fax(es)

(+371) 67089968

E-mail(s)

Aleksandrs.Urbahs@rtu.lv

Nationality(-ies)

German

Date of birth

14. July 1958

Gender

Male

Work experience

Dates

2000 – present

Occupation or position held

Director

Main activities and responsibilities

Education and Scientific research

Name and address of employer

Riga Technical University, Institute of Transport Vehicle Technologies 1, Kalku str., LV-1658, Rīga, LATVIA

Type of business or sector

Education and research activities

Dates

1999 – present

Occupation or position held

Head of Department

Main activities and responsibilities

Education and Scientific research

Name and address of employer

Riga Technical University, Department of Transport Vehicle Computer Modelling and Technologies 1, Kalku str., LV-1658, Rīga, LATVIA

Type of business or sector

Education and research activities

Dates

1999 – present

Occupation or position held

Professor

Main activities and responsibilities

Education and Scientific research

Name and address of employer

Riga Technical University, Faculty of Transport and Mechanical Engineering 1, Kalku str., LV-1658, Rīga, LATVIA

Type of business or sector

Education and research activities

Dates

1989 – 1999

Occupation or position held

Vice Dean, Dean

Main activities and responsibilities

Education and Scientific research

Name and address of employer

Riga Aviation University, Faculty of Mechanical Engineering 1, Lomonosova street, LV-1019, Rīga,

Latvia
Education and research activities

Type of business or sector

Dates 1998-1999

Occupation or position held Professor

Main activities and responsibilities Education and Scientific research

Name and address of employer Riga Aviation University, Faculty of Mechanical Engineering 1, Lomonosova street, LV-1019, Riga, Latvia

Type of business or sector Education and research activities

Dates 1995-1998

Occupation or position held Associate Professor

Main activities and responsibilities Education and Scientific research

Name and address of employer Riga Aviation University, Faculty of Mechanical Engineering 1, Lomonosova street, LV-1019, Riga, Latvia

Type of business or sector Education and research activities

Dates 1981 –1995

Occupation or position held Engineer, Researcher, Senior Researcher , Assistant, Lecturer

Main activities and responsibilities *Education and Scientific research*

Name and address of employer Riga Civil Aviation Engineering Institute 1, Lomonosova, LV-1019, Riga, Latvia

Type of business or sector Education and research activities

Education and training

Dates 1997

Title of qualification awarded Doctor Habilitatus Degree in Engineering

Name and type of organisation providing education and training Riga Aviation University, Riga, Latvia, State University

Level in national or international classification Doctor Habilitatus of Science in Engineering

Dates 1992 (December)

Title of qualification awarded Doctor Degree in Engineering

Name and type of organisation providing education and training Riga Civil Aviation Engineering Institute, Riga, Latvia, State University

Level in national or international classification Doctor of Science in Engineering

Dates 1986

Title of qualification awarded Candidate of Science Degree (in former USSR, Ph.D. in Western countries)

Name and type of organisation providing education and training Riga Civil Aviation Engineers Institute, Riga, Latvia
State High School Establishment

Level in national or international classification First Doctoral Degree in Engineering

Dates September, 1975 – February, 1981

Title of qualification awarded Diploma of Mechanical Engineer
Principal subjects/Occupational skills covered Maintenance and Flights Safety of Aircraft, Dynamics of Aircraft Flight, Aircraft power Plants, Construction and Strength of Aircraft, Aircraft and Aeroengines Manufacture
Name and type of organisation providing education and training Riga Civil Aviation Engineers Institute, Faculty of Mechanical Engineering
Level in national or international classification State High School Establishment
Diploma of Mechanical Engineer

Personal skills and competences

Mother tongue(s) German

Other language(s)

Self-assessment

European level (*)

Latvian

Russian

English

Understanding		Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production	
C1	excellent	C1	excellent	C1	excellent	B1	good
C1	excellent	C1	excellent	C1	excellent	C1	excellent
B1	good	B1	good	-	-	-	-

(*) Common European Framework of Reference (CEF) level

Social skills and competences

Professional activities and memberships

I have a positive experience in different social activities, for example as:

- Chairman, Promotion Council (in Engineering branch of Transport and Logistics Science), Riga Technical University, 2009 – present
 - Member, Promotion Council (Mechanics and Mechanical Engineering), Riga Technical University, 2004 – present
 - Member, Council for Professors' election in branch "Mechanics", Riga Technical University, 2002 – present
 - Member, Council for Professors' election in branch "Transport and Communication", Riga Technical University, 2002 – present
 - Member, Council for Professors' election in branch "Maritime Transport and Infrastructure", Latvian Maritime Academy, 2002 – present
 - Member, Council for Professors' election in branch " Mechanical Engineering ", Riga Technical University, 2000 – present
 - Member, Promotion Council (Aviation Transport), Riga Aviation University, 1998-1999
 - Expert, Latvian Council of Science, 2006 – present
 - Expert, Latvia Higher Education Council , 2007 – present
 - Expert, Lloyd's Register Quality Assurance Ltd, 2007 – present
 - Editor, Journal "Transport and Engineering. Intelligent Transport Systems" (ISSN 1407-8015), Latvia, Riga Technical University, 2000 – present
 - Chairman and Co-Chairman of Programming Committees of several International Scientific Conferences
 - Member of the board,, Journal "Maritime Transport and Infrastructure", Latvian Maritime Academy , 2006 – present
 - Reviewer of several International Conferences ("Maritime Transport and Infrastructure", IMETI 2009 etc.)
 - Member of Latvian Professor's Association, 1996 - present
- and other

Research interests

I am a professional researcher in various areas of a science, for example:

- § UNMANNED LAND/SEA/AIR VEHICLES
- § STRUCTURAL DESIGNS
- § STRUCTURAL MATERIALS PROCESSING - SURFACE PROTECTION TECHNOLOGIES
- § Transport
- § Diagnostics of Machinery
- § Mechanical Engineering
- § Transportation System and Logistics

§ Intermodal and Multimodal Transportation

Organisational skills and competences

I have a positive experience in different organizational activities, for example:

- § As Director of institute during 10 last years I am responsible for general management of academic, research and professional activities in Riga Technical University with about 50 personal of full time staff and more than 250 students.
- § As Dean and vice Dean of Faculty of Mechanical Engineering during 10 last years I am responsible for general management of academic, research and professional activities in Riga Aviation University with about 100 personal of full time staff and more than 500 students.
- § I was leader of team and expert in different national and international research and development projects and programs (see Annex 1)

Technical skills and competences

I am the professional educator in different technical subjects, for example:

- § Science of Aviation Materials
- § Aircraft Construction Mechanics
- § Vehicles Design
- § Construction and Strength of Aero engines
- § Maintenance and Flights Safety of Aircraft
- § Logistic systems
- § Logistics and Transport Systems
- § Maintenance Process Management of Transport
- § Aircraft power Plants
- § Construction and Strength of Aircraft
- § Safety of the Transport Traffic
- § Structure of Transport Terminals
- § Structure of Transport Machine
- § Intermodal and Multimodal Transportation
- § Cargo Storing and Servicing Systems
- § Fundamentals of Research
- § Cargo Loading and Transportation Facilities in Transportation Systems
- § Computer Aided Design in Transport Machine-building
- § CAM Technology in Transport Machine-building

Computer skills and competences

Free use in scientific researches, Windows, Office, Pro/Engineer, AutoCAD, SolidWorks, ARCGIS, Mastercam

Artistic skills and competences

I am author of 256 publication including 224 scientific papers, 14 scientific and teaching books, and 18 patent

Other skills and competences Visiting positions

Darmstadt Technical University, Germany (visiting professor, 2004 - 2005) (6 months)
Berlin Technical University, Germany (research fellow, 1999) (6 months)
Research fellow in the programme, Phare-funded Vocational Training Centres in Road Transport Project (Certificate of Professional Competence for International Road Freight Transport, 1999)

List of main publications last five years:

- § Urbah A., Belovec A., The integrated multilevel approach of an innovative product designing using Pro/Engineer// Scientific proceedings of Riga Technical University, 6. vol., Transport and Engineering, Intelligent Transport Systems, Nr.18, ISSN 1407-8015, Rīga, 2004, pp. 60 – 65.
- § Urbah A., Feofanov V. The control and estimation of functional efficiency of the crew of an aircraft// Scientific proceedings of Riga Technical University, 6. vol., Transport and Engineering, Intelligent Transport Systems, Nr.18, ISSN 1407-8015, Rīga, 2004, pp. 24 – 28.
- § Urbahs A., Savkov K. Creation of ionic-plasma coverings for protection and restoration of details for gas-turbine engines. In: Proceedings of 2nd International Scientific and Technical Conference „Aero Engines of the XXI Century”, December 6-9, 2005, Moscow, Russia, p.306-307.
- § Urbahs A., Savkov K., Smorodova Z., Gravitis U. The elaboration of specialized coatings used for substrates in vacuum sputtering technologies. In the Book: Proceedings of 9th International Conference „Transport Means' 2005”, October 20-21, 2005, Kaunas University of Technology, Kaunas, Lithuania, p.272.-273.
- § Urbahs A., Urbaha M., Cerkovņuks A. (2005). Methodology of logistic organization and planning of local transport systems of intermodal transportation. In the Book: Proceedings of 9th International Conference „Transport Means' 2005”, October 20-21, 2005, Kaunas University of Technology, Kaunas, Lithuania, pp.239-241.
- § Urbahs A., Feofanovs V. Methodology of information registration in systems of objective control and appraisal of vehicle crew activity. // Scientific proceedings of Riga Technical University, 6. vol., Transport and Engineering, Intelligent Transport Systems, 18. s., ISSN 1407-8015, Rīga, 2005, pp.127 – 132 .
- § Urbahs A., Savkovs K. Multicomponent intermetal- ceramic coating for the protection and restoration of machine - building products.- In the Book: "Machinenbuilding and Electrical Engineering", ISSN 0025-455X, Nr.4-5, 2006,47-55 pp.
- § Urbahs A., Savkovs K., Nesterovskis V. Elaboration of multicomponent intermetal-ceramic coatings for the protection and restoration of machine-building products. - In the Book: Proceedings of the XIV International Conference "Mechanics of Composite Materials", Riga, 2006.
- § Urbahs A., Savkovs K., Nesterovskis V., Urbaha M. Creation of ionic-plasma coverings for protection and restoration of details for gas-turbine engines.- In the Book: Proceedings of the International Conference on Composites/Nano Engineering ICCE-15 July 15-21, 2007, Hainan island, China.
- § Urbahs A., Savkovs K., Nesterovskis V., Urbaha M. Creation of ionic-plasma coverings for protection and restoration of details for gas-turbine engines. // World Journal of Engineering, Vol.1.4, Nr.5-6, - ISSN 1708-5284, 2007, 996.-997.pp.
- § Urbahs A., Savkovs K., Urbaha M. Nanostructured composite coatings for the protection and restoration of precision friction pair parts // International Journal Machines, Technologies, Materials: Scientific-technical union of mechanical engineering, Issue 6-7/2008., - ISSN 1313-0226. (2008), 58.-59. pp.
- § Urbahs A., Petrovs V., Savkovs K., Jakovļevs A., Bulanovs V. Unmanned Aerial Vehicle Design // International Journal Machines, Technologies, Materials: Scientific-technical union of mechanical engineering, Issue 6-7/2008, ISSN 1313-0226, 2008, p.60-61.
- § Urbahs A., Petrovs V., Savkovs K., Jakovļevs A., Bulanovs V. Multipurpose unmanned aerial vehicle design // Proceedings of 12th international conference Transport Means, Transport Means, Lithuania, Kaunas, ISSN 1822-296X, 23.-24.. oktobris, 2008. - 30-32. lpp.
- § Urbahs A., Banovs M., Doroško S., Nasibullins A. Acoustic emission monitoring of landing gear fatigue testing // Proceedings of 12th international conference Transport Means, Transport Means 2008, ISSN 1822-296X, Kaunas, Lithuania, 23.-24.. oktobris, 2008. - 33-36. lpp.
- § Urbahs A., Savkovs K., Urbaha M., Nesterovskis V. Synthesis of nanostructured composite coatings for the protection and restoration of precision friction pair parts // Book of abstracts of international conference MCM 2008, Mechanics of Composite Materials - 2008, LATVIJA, Rīga, 26.-30.. maijs, 2008. - 267-268. lpp.
- § Urbahs A., Urbaha M., Savkovs K. Nanostructured composite coatings for the protection and restoration of precision friction pair parts // Nanotech Northern Europe 2008, Nanotech Northern Europe 2008, DĀNIJA, Kopenhāgena, 23.-25.. septembris, 2008. - 170-171. lpp.
- § Urbah A., Banov M., Doroshko S., Turko V. Non-destructive inspection of aircraft landing gear during residual strength testing. // ULTRAGARSAS (Ultrasound), ISSN 1392-2114, Vol.64, Nr.1, 2009.- 43-45 pp.
- § Urbahs A., Savkovs K., Urbaha M. Multifunctional protective technological coverings.// Proceedings of the 1st International EJC-PISE Workshop in Riga, 09 - 10 June, 2009.
- § Urbahs A., Savkovs K., Nesterovskis V.High temperature oxide resistant components of perspective high strength intermetalceramic composite coatings. // Proceedings of the 1st International EJC-PISE Workshop in Riga, 09 - 10 June, 2009.
- § Urbahs A., Savkovs K., Urbaha M. Multifunctional protective technological coverings. // Proceedings of the 7th International Nanotechnology Symposium: New Ideas for Industry "Nanofair 2009", Dresden, Germany, May 26-27, 2009. - 58. pp.
- § Urbahs A., Savkovs K., Urbaha M. Technology for the design of nanostructured composite coatings . // Proceedings of the International Conference "NanoAfrica2009", Pretoria, South Africa, February 1 - 4, 2009. - 73. pp.
- § Shaniavski A., Urbahs A., Banovs M., Doroshko S., Hodos N. Correlation of acoustic emission signals with kinetics of fatigue crack growth in the shock absorber of aircraft landing gear // Scientific Journal of Riga Technical University, ISSN 1407-8015, Vol.6, Nr.31, 2009, 94- 100 pp.
- § Urbahs A., Scavinskis R., Kulesovs N. WHEELCHAIRS. - EU patents, Nr.000762778-0001 no 31.07.2007.g..

Annexe 1 List of main projects with Aleksandrs Urbahs participation:

- § (Head of Project). Multipurpose unmanned aerial vehicle design, Latvia Higher Education Council (2008)
- § (Head of Project). Creation of multicomponent ionic-plasma coatings for the protection and restoration of machine-building products, Latvian Council of Sciences (2009)
- § (Head of Project). Creation of functional composite coatings for industrial products by ion - plasmous sputtering, Latvia Higher Education Council (2006)
- § (Head of Project). Creation of ionic-plasma coverings for protection and restoration of details for vehicle power-plants, Latvia Higher Education Council (2005 – 2006)
- § (Head of Project). Development of the method of early detection and control of fatigue cracks in aviation structures during bench-tests, Latvia Higher Education Council (2008-2009)
- § (Head of Project). Continuously CAD - integrated reliability analysis and optimization of technical systems, Latvian Council of Sciences (2004 – 2008)
- § (Head of Project). Design of ecobiotechnical vehicles for individual use , Latvia Higher Education Council (2006 – 2007)
- § (Head of Project). Transport System Engineering, *EU Projects* 3.2.3.2 (2006-2008)
- § (Scientist in Charge). The analysis of vibrations of the power equipment of sea courts, Latvian Maritime Academy (2007)
- § (Co-ordinator). Leonardo da Vinci program «Total Quality Management in vocational training» (1999)
- § (Head of Project). Vibroacoustic diagnostics of industrial ventilators, Latvia Higher Education Council (2008 – 2009)