europass Curriculum vitae

PERSONAL INFORMATION

Aleksandr Sakhnevych

Sex Male | Date of birth 6 Jun 1988

PERSONAL STATEMENT

An organized and forward-looking person with excellent abilities for synthetic and global views over concrete situations. End-oriented work capacity and problem-solving attitude.

These abilities were strongly developed by working autonomously and also in some different projects at the same time.The aim is to work in the simulation automotive/robotic sector.

WORK EXPERIENCE

Feb 2012–Jul 2014

Sales representative

Naples (Italy)

Parapharmaceutical sector

EDUCATION AND TRAINING

1 Nov 2014–Present

Doctor of Philosophy (PhD), Mechanical Engineering

Università degli Studi di Napoli 'Federico II'

- Tyre thermal characterization
- Tyre/Road interaction modeling
- Experimental outdoor/indoor sessions and data analysis

12 Mar 2012–22 Jul 2014

Master of science degree, Mechanical Engineering

Università degli Studi di Napoli 'Federico II'

Grade : 110/110 cum laude

Degree thesis was developed in collaboration with Ferrari S.p.A., GES Racing Department: “From Thermo Racing Tyre model to Wheel Thermal Model: Implementation of new features in tyre thermodynamic models” (22/07/2014); the thesis is centered on the knowledge of heat flows and accordingly the temperature distribution inside the tyre, as an important instrument for the identification of optimum operating conditions in order to maximize tyre performances.

Main subjects:

Mechanical and thermal measurements; Computer aided design of mechanical structures; Dynamics of mechanical systems; Geometrical modelling and virtual prototyping; Non-conventional manufacturing technologies; Operations management; Robot mechanics; Vehicle dynamics; Mechanical design; Railway vehicle dynamics; Corrosion and protection of materials.

Main skills:

- Real-time simulation (Matlab/Simulink)
- FEM / CAD (Ansys, Solidworks, Catia)
- Project engineering/coordination

2008–2012

Bachelor's degree, Mechanical Engineering

Università degli Studi di Napoli 'Federico II'

Grade: 104/110

Degree thesis was developed in collaboration with CNR Istituto Motori: "Theoretical and experimental evaluation of pollutant emissions regulated for Euro 3 motorcycles". (16/03/2012)

2003–2008

High School Diploma at the Scientific Lyceum of Naples

Liceo Scientifico Renato Caccioppoli

Grade: 100/100

PERSONAL SKILLS

Mother tongue(s): Italian, Russian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- good communication skills gained through experience as sales representative
- enthusiastic team spirit

Organisational / managerial skills

- leadership and problem solving attitude throughout different projects at the same time
- assistant supervisor of two bachelor thesis completed and of three master thesis ongoing

Job-related skills

- forward-looking person with excellent abilities for synthetic and global views over concrete situations
- end-oriented work capacity and problem-solving attitude

Digital competence

- excellent command of Microsoft Office™ tools and Matlab/Simulink environment
- good command of Ansys, Solidworks and Catia
- website construction (CSS & HTML5)

Driving licence: A, B

ADDITIONAL INFORMATION

Projects

UniNa Tyre Lab | *2/14*
Theoretical studies carried out by the Vehicle Dynamics research team and the development of models able to understand the complex mechanisms concerning the interaction between the vehicle and road can benefit, thanks to TyreLab, of a structure realized in order to provide visco-elastic, dynamic and thermodynamic characterizations of tyre and surfaces with which it interfaces.
http://www.dii.unina.it/index.php/it/ricerca/laboratori-di-ricerca/144-tyre-lab

Corrosion of metals and alloys in the Food industry | *11/13 - 1/14*

The great variety of corrosive environments and aggressive chemical agents in the food industry require the use of Corrosion Resistant Alloys (CRAs). Among others, aluminium, cooper and mainly stainless steel are the obvious choice of the FI to prevent equipment damage and food contamination. Selection of an appropriate container covering is an activity that requires the participation of specialized expertise in materials technology, coupled with a sound knowledge of the chemical and physical characteristics of the food products.

Railway dynamics simulation | *5/13 - 7/13*
Dynamic analysis of railway vehicle/track interaction forces in Simulink/Matlab environment, as a response to different real measured track geometries.

Mechanical structural analysis | *3/13 - 6/13*
Mechanical design of physical structures and their components, taking into account the economic and environmental constraints.
Structural analysis of the steel structures due the effects of different loads according to Eurocode 3 and the comparison of the later results with same ones of the FEM studies.

Finite Element Analysis | *12/12 - 2/13*
Finite element analysis of mechanical structures using ANSYS:
- linear static problems
- modal dynamic response
- buckling
- steady/transient heat flow in composite materials

Feasibility study at GEVEN | *6/11 - 9/11*
Study of the product, the market and the production process in order to establish a Break even analysis and therefore the breakeven point between costs and revenues.

Conferences

4th Tyre Colloquium - University of Surrey

20-21 April 2015, Guildford, UK

"DEVELOPMENT OF A GRIP AND THERMODYNAMICS SENSITIVE PROCEDURE FOR THE DETERMINATION OF TYRE/ROAD INTERACTION CURVES BASED ON OUTDOOR TEST SESSIONS"

WCE 2015 - The World Congress on Engineering 2015

1-3 July, London, UK

"AN EVOLVED VERSION OF THERMO RACING TYRE FOR REAL TIME APPLICATIONS"

"EXPERIMENTAL ANALYSIS OF THE RELATIVE MOTION OF A GEAR PAIR UNDER RATTLE CONDITIONS INDUCED BY MULTI-HARMONIC EXCITATION"

"A COMPARISON AMONG DIFFERENT METHODS TO ESTIMATE VEHICLE SIDESLIP ANGLE"

Courses

- The Entrepreneurial Analysis of Engineering Research Projects
- System Engineering Design (SysML and Modelica)
- LabVIEW Core 1 & 2
- Scalar and Vector Optimization
- Matlab Fundamentals