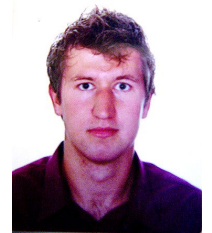


# Europass Curriculum Vitae



## Personal information

**Surname(s) / First name(s)** Špíčka, Jan  
**Address(es)** Buková 1109, 271 01, Nové Strašecí, Czech Republic  
**Telephone(s)** +420 604 981 033  
**Email(s)** spicka@ntc.zcu.cz, honza.spicka@seznam.cz  
**Nationality(-ies)** Czech  
**Date of birth** 24.09.1988  
**Gender** Male

## Work experience

<p> <b>Dates and position held</b> July 2013 - currently, Research and development assistant  <b>Main activities and responsibilities</b> Virtual human body modelling. development and validation of human body models  <b>Name and address of employer</b> NTC- New technologies-Research Centre, University of West Bohemia in Pilsen, Univerzitní 8, 306 14, Pilsen, Czech Republic  <b>Type of business or sector</b> Research and development, biomechanics         </p>	<p> <b>Dates and position held</b> January 2013 - May 2013, Part-time job in numerical simulation fields  <b>Main activities and responsibilities</b> FEM modelling of road barriers and simulations of crash with the vehicles. Testing and assessment of a new type of barriers  <b>Name and address of employer</b> MECAS ESI s.r.o., Brojova 12, 326 00, Plzeň, Czech Republic  <b>Type of business or sector</b> Research and development         </p>
<p> <b>Dates and position held</b> January 2012 - June 2013, Erasmus team staff  <b>Main activities and responsibilities</b> Promoting and organising of students events in Manchester  <b>Name and address of employer</b> International Society 327 Oxford Road, M13 9PG, Manchester (United Kingdom)  <b>Type of business or sector</b> Events management         </p>	<p> <b>Dates and position held</b> October 2010 - December 2011, City councillor in Nové Strašecí  <b>Main activities and responsibilities</b> Policy issue of the town. Attendance at council meetings  <b>Name and address of employer</b> Town hall in Nové Strašecí, Komenského square 201, 27101, Nové Strašecí (Czech Republic)  <b>Type of business or sector</b> Policy         </p>

Dates and position held	January 2009 - June 2011, Part-time on project focused on FEM model of human body
Main activities and responsibilities	Developing and validation of human head model
Name and address of employer	University of West Bohemia in Pilsen, Univerzitní 8, 306 14, Pilsen, Czech Republic
Type of business or sector	Research and development

## Education and training

Dates and Title of qualification awarded	September 2013 - currently, Doctor's degree in applied mechanics and impact biomechanics
Principal subjects/Occupational skills covered	Thesis title: Virtual human body model for industrial applications
Name and type of organization providing education and training	University of West Bohemia in Pilsen, Faculty of Applied Sciences, Department of Mechanics
Level in national or international classification	Doctor's degree, Ph.D

Dates	April 2014 - May 2013 (2 months)
Principal subjects/Occupational skills covered	Internship within exchange programme FreeMovers
Name and type of organization providing education and training	Warsaw University of Technology (Politechnika Warszawskiej), Faculty of Power and Aeronautical Engineering, Institute of Aeronautic and Applied Mechanics, Nowowiejska 24, Warszawa

Dates and Title of qualification awarded	September 2010 - June 2013, Master's degree in applied mechanics, impact biomechanics and numerical analysis
Principal subjects/Occupational skills covered	Thesis title: Double pendulum contact problem. Thesis written in English
Name and type of organization providing education and training	University of West Bohemia in Pilsen, Faculty of Applied Sciences, Department of Mechanics
Level in national or international classification	Master's degree, Ing.

Dates	September 2011 - June 2012 (2 semesters)
Principal subjects/Occupational skills covered	Study within exchange programme Erasmus
Name and type of organization providing education and training	Manchester Metropolitan University, Faculty of Science and Engineering, All Saints Building, All Saints, M15 6BH Manchester (United Kingdom)

Dates and Title of qualification awarded	September 2007 - June 2011, Bachelor degree in applied mechanics
Principal subjects/Occupational skills covered	Thesis title: FEM head model validation
Name and type of organization providing education and training	University of West Bohemia in Pilsen, Faculty of Applied Sciences, Department of Mechanics
Level in national or international classification	Bachelor's degree, Bc.

Dates and Title of qualification awarded  
 Name and type of organization providing education and training  
 Level in national or international classification

September 2003 - June 2007, High School Diploma  
 Gymnasium J.A.K, Nové Strašecí, Komenského square 207  
 Successfully completed all Final Exams

**Courses**

Dates and Title of qualification awarded  
 Principal subjects/Occupational skills covered  
 Name and type of organization providing education and training

November 2011 (2 days), Certification of attendance  
 Course of HyperWorks and Hypermesh software  
 University of West Bohemia in Pilsen, Faculty of Applied Sciences, Department of Mechanics

Dates and Title of qualification awarded  
 Principal subjects/Occupational skills covered  
 Name and type of organization providing education and training

October 2010 (2 days), Certification of attendance  
 Advanced course of PAM-CRASH software, Advanced materials  
 MECAS ESI s.r.o., Brojova 12, 326 00, Plzeň, Czech Republic

Dates and Title of qualification awarded  
 Principal subjects/Occupational skills covered  
 Name and type of organization providing education and training

October 2009 (2 days), Certification of attendance  
 Course of PAM-CRASH software  
 MECAS ESI s.r.o., Brojova 12, 326 00, Plzeň, Czech Republic

**Personal skills and competences**

Mother tongue(s)  
 Other language(s)

*Self-assessment European level<sup>(\*)</sup>*

**English**  
**German**

Awards

Social skills and competences

Organisational skills and competences  
 Job-related skills

**Czech**

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C1	C1	C1
A2	A2	A1	A1	A2

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

2014 - Talent of UWB  
 2013 - Student Research Conference - awarded for the best contribution in master section mathematics, mechanics and physics  
 Communicative, flexible, creative and responsible person. Priority: working with people. Enjoy learning new things, meeting new people  
 Good experience in project or team management. Sense of organisation (organising of a 2-3-weeks expeditions abroad for 4-8 people)  
 Deep knowledge in biomechanics, mechanics and contact mechanics, numerical analysis and simulation. Interest in automotive industry and biology.

Computer skills and  
competences

**CAD/CAE:** PAM-CRASH- Advanced, HyperMesh- Medium, MSC. Marc- Basic, Ansys- Basic, Adams- Basic

**Programming language/software:** MATLAB- Advanced (2013-2014 Tutor at UWB), nCode7- Basic, LabView- Basic, Java- Basic

**Optimization software:** OptiSlang- Medium

**Other:** MS Office product- Advanced, Latex- Advanced, Linux- Basic, Slicer3D- Medium

Other skills and competences

Sport (volleyball, cycling, skiing, mountain climbing, hiking), travelling, exploring new places and meeting new people

Driving licence(s)

B (car) and AM (small motorcycle)

## References

New technologies-Research Centre

Doc. Ing. Ludek Hynčák, Ph.D.

hyncik@ntc.zcu.cz

## Publications

ŠPIČKA, J., HAJŽMAN, M., AND HYNČÍK, L.

Double pendulum contact problem.

*Applied and Computational Mechanics 8, ISSN: 2336-1182 (2014), 115–128*

ŠPIČKA, J., HAJŽMAN, M., AND HYNČÍK, L.

Multibody model of a human body.

*30th conference Computational Mechanics 2014 - Extended Abstract (2014)*

ŠPIČKA, J., HAJŽMAN, M., AND HYNČÍK, L.

Double pendulum contact problem.

*29th conference Computational Mechanics 2013 - Extended Abstract (2013)*

ŠPIČKA, J., HAJŽMAN, M., AND HYNČÍK, L.

A bouncing ball benchmark problem and solution of an ellipsoid-to-plane contact.

*The 3rd Joint International Conference on Multibody System Dynamics and The 7th Asian Conference on Multibody dynamics - Extended Abstract (2014), 29–31*

ŠPIČKA, J., HAJŽMAN, M., AND HYNČÍK, L.

A bouncing ball benchmark problem and solution of an ellipsoid-to-plane contact.

*The 3rd Joint International Conference on Multibody System Dynamics and The 7th Asian Conference on Multibody dynamics - Full paper (2014)*

ČECHOVÁ, H., MAŇAS, J., ŠPIRK, S., VYCHYTI, J., HYNČÍK, L., KOVÁŘ, L., KEPKA, M., KLEISNER, J. P. V., AND ŠPIČKA, J.

Virhuman - universal human body model for transport safety application.

*PCUF 2013 (2013)*

ŠPIČKA, J., JANSOVÁ, M., AND HYNČÍK, L.

Biomechanical head model for impact applications.

*27th conference Computational Mechanics 2011 - Extended Abstract, ISBN: 978-80-261-0027-0 (2013)*

HYNČÍK, L., ŠPIČKA, J., MAŇAS, J., AND VYCHYTI, J.

Stature based approach towards vehicle safety.

*SAE technical paper 2015-26-0209, 2015, doi: 10.4271/2015-26-0209 (2015)*