

# Darko Perović

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Research Consultant at Danish Institute of Fire and Security Technology, DBI  
IMFSE Fire Safety Engineering Master graduate  
Broad knowledge in civil, structural and fire safety engineering  
International experience – Denmark, Australia, Sweden, UK, Belgium, Lebanon, Serbia

## OBJECTIVE

I want to apply my knowledge to difficult scientific problems that matter at a global scale, take part in dynamic, team-oriented research projects, and become someone who makes a change towards better and safer world.

## EXPERIENCE

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|---------------------|---|----------------------------|
| May 2019 - present  | <b>DBI – Danish Institute of Fire and Security Technology</b><br><b>Advanced Services department</b> , Research Consultant<br>Numerical modelling ( <b>CFD and FEM</b> ) for tackling various industry and research projects.<br>Experiments on material characterization, smoke and soot analysis. Risk assessment tasks.<br>Work with several industries – construction, naval, and offshore. | <b>Copenhagen, Denmark</b> |
| Dec 2018 – Mar 2019 | <b>University of Queensland</b> , Occupational Trainee<br>Conducted research in the field of timber structures – experimentally determining and correlating charring and regression rates of cross-laminated timber CLT.  | <b>Brisbane, Australia</b> |
| Jun – Jul 2015      | <b>DG Jones &amp; Partners</b> , Intern<br>Time and cost management tasks, quantity surveying, and site supervision process at one of the largest construction sites in Lebanon – ABC Verdun shopping mall.   | <b>Beirut, Lebanon</b>     |
| Jul – Aug 2014      | <b>Jaroslav Černi Institute for Development of Water Resources</b> , Intern<br>Research in the fields of Soil Mechanics and Geology. Gained insight into civil engineering research methodologies and worked with some of the most renowned experts in the country.   | <b>Belgrade, Serbia</b>    |
| Jul – Aug 2013      | <b>Jugogradnja Engineering</b> , Intern<br>Site supervision of a residential building construction. Learnt various building technologies and became familiar with contractor duties and ways of work.   | <b>Belgrade, Serbia</b>    |

## EDUCATION

- |             |   |
|-------------|---|
| 2016 – 2018 | <b>International Master of Science in Fire Safety Engineering IMFSE</b><br>MSc in Fire Safety Engineering. Gent University, Lund University and University of Edinburgh.<br>Erasmus+ full scholarship |
| 2011 – 2015 | <b>University of Belgrade, School of Civil Engineering (GRF)</b><br>BSc in Civil Engineering (Structural Engineering module)<br>Graduated in the top 10% in class                                     |

## PUBLICATIONS

- |                 |  |
|-----------------|--|
| Master thesis   | <b>“Identification and characterization of design fires to be used in performance-based fire design of CERN facilities”</b><br>Analytical and experimental work with design fires and smoke characterization for common combustibles present at CERN – electrical cabinets, insulating oils and cables.<br>Paper presented at <b>Interflam 2019</b> , currently in the peer review process for publication in Fire and Materials Journal.        |
| Bachelor thesis | <b>“Project of a 5-floor masonry building with a timber roof”</b><br>Detailed analysis, calculations, and drawings for the whole project from scratch.   |
| IMFSE blog      | <b>Wrote and published IMFSE blogposts during two years of my Masters program</b><br>Interviews with professors, students and alumni, course reviews, thesis experience, seminars and conferences visited, visits to companies and research facilities etc.<br><a href="https://internationalmasterinfiresafetyengineering.wordpress.com/author/darefire/">https://internationalmasterinfiresafetyengineering.wordpress.com/author/darefire/</a> |

## SELECTED ACTIVITIES AND ACKNOWLEDGEMENTS

Summer schools and conferences	<p>Presented a paper "Identification and characterization of design fires to be used in performance-based fire design of CERN facilities" at <b>Interflam</b> (London, UK, Jul. 2019).</p> <p>Gave a talk on "Experiences with smoke particle size distribution measurements" at Nordic Fire &amp; Safety Days <b>NFSD</b> (Copenhagen, Denmark, Aug. 2019)</p> <p>Attended Joint European Summer School on Fuel Cell, Electrolyser, and Battery Technologies (JESS) with the focus on <b>hydrogen safety</b>. (Athens, Greece, Sep. 2019).</p> <p>Volunteered in organizing the <b>IAFSS 12th International Symposium on Fire Safety Science 2017</b> (Lund, Sweden, Jun. 2017).</p>
Scholarships	<p>One of the five students awarded with an <b>Erasmus+ full scholarship</b> for the IMFSE program (2016 - 2018)</p> <p><b>Tuition fully funded</b> by the University of Belgrade for excellence in studies (2011 - 2015)</p> <p><b>Scholarship for outstanding students</b>, Ministry of Education, Science and Technological Development, Serbia (2011, 2012)</p>
Seminars	<b>EESTEC Soft Skills Academy</b> - trainings in time management, working in a team, leadership, communication and feedback, constructive solving of problems, etc. (2013)
Competitions	Special mentions on the National Physics High School Competitions (2010, 2011)

## FIELDS OF INTEREST

Fire dynamics	Numerical modelling (CFD and FEM)
Structural design for fire	Smoke toxicity
Experimental work	Sustainable materials and renewable sources of energy

## COMPUTER SKILLS

Software	Fire Dynamics Simulator (FDS), COMSOL Multiphysics, Simulia Abaqus FEA, Autodesk AutoCAD, RadImpex Tower, CSI America - SAP 2000, Oracle Primavera
Programming	MATLAB, basic knowledge of Python, Pascal and Microsoft Visual Basic

## LANGUAGES

	Speaking	Writing	Reading	Certificates
Serbian		Native		
English	C2	C2	C2	CAE
French	C1	B2	C1	DELFB2
Spanish	A2	A1	B1	

## OTHER

Volunteering	<p>Volunteered at <b>IAESTE LC, Belgrade</b> (2012 - 2015) – organizing activities for international technical students conducting internships in Belgrade.</p> <p>Volunteered on the project "Loud for Health", <b>fighting against corruption</b> in the healthcare system, NGO "Serbia on the Move", Belgrade (2013).</p>
Sport	<b>Long distance running</b> - marathons and ultra-marathons (most recently Ring of Steall, Scotland 2019). Scuba diving - PADI rescue diver.
Hobbies	Skiing, reading, playing guitar, mountaineering, cooking, travelling.