CV - Mihhail Samusev

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OBJECTIVE

Seeking a PhD position where I can apply my skills and experience in research, computational methods and algorithm development.

WORK EXPERIENCE

Research assistant at Aalborg University, Aalborg, Denmark, 08/2019 – present

Position at traffic research group. Developing algorithms and software in Python and C++ for traffic measurements, object detection and tracking using camera, radar and lidar.

Research assistant at Aalborg University, Aalborg, Denmark, 08/2018 – 07/2019

Researched computational methods in structural health monitoring. Developed MATLAB toolbox to perform numerical modelling of vibrating structures, signal processing for extraction of damage sensitive features, machine learning methods for damage detection. Co-supervised master thesis in the subjects of structural dynamics and time-series modelling.

Laboratory technician at SINTEF Ocean, Hirtshals, Denmark**,** 07/ 2017 – 06/2018

Analyzed data from load cells and camera based motion tracking system to increase the accuracy of the model testing of aquaculture cages. Developed a simulation software in C# to predict the deformation of the critical parts of the large scale fishing gear in order to assess the impact of different gear designs on by-catch reduction. Assisted the flume tank experiments of scaled models of industrial fishing gear.

Structural engineer at Niras, Aarhus, Denmark, 01/2016 – 09/2017

Was responsible for vertical load calculation for a large (40,000 m^2) office building, determination of foundation sizes in the adjacent parking building and design of stabilizing walls in both buildings.

EDUCATION

MSc: Structural & Civil Engineering at Aalborg University, Aalborg, Denmark, 08/2016 – 06/2018

Great results with a course average grade of 10.8/12. 60 ECTS master thesis in cooperation with SINTEF Ocean on the topic: "Implementation and comparison of two numerical models of trawl cod-end" with a grade of 12/12.

BEng: Structural & Civil Engineering at VIA UC, Horsens Denmark, 08/ 2012 – 02/2016

Great results with a course average grade of 11/12. 18 ECTS bachelor thesis on the topic: "FEM modeling, programming, parametric design and wind tunnel testing of a bridge with irregular geometry" with a grade of 12/12.

RELEVANT COURSES

PyImageSearch Gurus, 06/2019 – 12/2019

Six month applied computer vision course covering theory and implementation of systems for solving real-life problems regarding image classification, object detection, face recognition, content based image retrieval, automatic license plate recognition, deep learning for computer vision.

LANGUAGE SKILLS (In common European framework CERF)

Language	Level	Based on exam
Danish	B2 – intermediate	Danskuddannelse 3 modul 5 exam
English	C1 – advanced	IELTS 7.0
Russian	native language	
Estonian	B2 – intermediate	Gymnasium final exam