

ARYAN ESFANDIARI

PERSONAL INFORMATION

LOCATION: Cambridge, United Kingdom
CITIZENSHIP: Norwegian
PHONE: +44 739 7131 703
EMAIL: arian88@gmail.com

EXPERIENCE

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| <i>2019 - present</i> | <p>Huawei Technologies R&D UK – Cambridge, United Kingdom
Senior Artificial Intelligence Algorithms Developer</p> <p>Cambridge and London Research Centre (2012 Laboratories) – Computer Vision.
Research on various deep learning advancements such as supervised and self-supervised learning with novel convolutional neural network architectures including but not limited to classification, instance and semantic segmentation, autoencoders, recurrent neural networks, self-attention, generative and adversarial networks. During my employment, I have had the opportunity to study and analyse state-of-the-art deep learning and computer vision advances in addition to development of innovative approaches. I was honoured to be a part of numerous leading research, university collaborations and had the privilege of attending several international conferences.</p> |
| <i>2016 - 2019</i> | <p>Xilinx Development Corporation – Edinburgh, United Kingdom
Senior Design Engineer</p> <p>Implementation of efficient deep convolutional neural networks with Keras and Tensorflow with respect to the embedded hardware and artificial intelligence accelerators. I was also responsible for model optimisation, including compression and quantization based on FPGAs for low-latency computations and inference in data centres and cloud computing services such as Amazon AWS. During my time with Xilinx, I had the opportunity to be a part of several deep learning frameworks and libraries development such as Xilinx Vitis™ and to investigate into a variety of System-on-Chip architectures for artificial intelligence including dedicated AI Engines and advanced DSPs.</p> |
| <i>2014 - 2016</i> | <p>University of Oslo – Oslo, Norway
Research Assistant</p> <p>I taught both undergraduate and postgraduate level courses, including Advanced Digital Systems Design and Introduction to Robotics along with development of teaching materials, curriculum and visual aids. I was responsible for supervision of students with dissertations and publications in addition to evaluations and examinations.</p> |
| <i>2014</i> | <p>Samsung Innovation House – California, United States
Embedded System Engineer Intern</p> <p>My main responsibility was to develop commercial applications for ARM microcontrollers including bootloader and firmware in C and C++. I was also involved in other fields such as circuit design, digital electronics, sensors and simulations. This internship shaped my academic knowledge to high-quality experiences and skills in the heart of Silicon Valley.</p> |

EDUCATION

2014 - 2016	Master of Science in ROBOTICS AND INTELLIGENT SYSTEMS, University of Oslo Dissertation: “High-speed neural stimulation with Artificial Neural Network approaches based on Dynamic Vision Sensor and Embedded Systems” GPA: A / A – Advisor: Prof. Philipp Dominik HÄFLIGER, Prof. Koen Gerard Alois VERVAEKE
2014	Master of Science in ROBOTICS AND INTELLIGENT SYSTEMS, University of California, Berkeley GPA: A / A – Exchange semesters
2010 - 2014	Bachelor of Science in ROBOTICS AND INTELLIGENT SYSTEMS, University of Oslo GPA: B / A – Advisor: Prof. Ketil RØED

PUBLICATIONS, ACHIEVEMENTS AND AWARDS

2019	Future Star of Huawei: Recognised as one of the most enthusiastic, passionate and dedicated new starters for novel and innovative deep learning research in addition to outstanding teamwork.
2018	Recognition award of Xilinx: Awarded for distinguished research and development of hardware optimised and efficient deep convolutional neural networks that led to multiple in-house and commercial patents.
2015 - 2016	The Best Student Project Award: Achieved the best student project of University of Oslo. This was related to my recent projects including “Medical Robot for Healthcare”, “Modular Walking Robot” and “Pool Detection and Path Identification with Computer Vision approaches in OpenCV”.

ORGANISATION

2012 - 2016	Robotica Osloensis / UIO UAVs: Deputy and board member in student organisation for research and development in Robotics, Intelligent Systems and Unmanned Aerial Vehicles. My field of interest and projects were focused primarily on conventional computer vision approaches including deblurring, denoising, stabilisation and deep learning algorithms for instance and semantic segmentation in addition to super-resolution with the objective of image and video enhancement for data acquisition from unmanned aerial vehicles.
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LANGUAGES

English:	FLUENT
Norwegian:	NATIVE
Persian:	NATIVE

COMPUTER SKILLS

Frameworks:	PYTORCH, TENSORFLOW, KERAS, OPEN-CV, SCIKIT-LEARN, NUMPY and NOTEBOOK
Languages:	PYTHON, MATLAB, C/C++, JAVA, VHDL, SYSTEMVERILOG and \LaTeX
Technologies:	ROBOTICS, COMPUTER VISION, SIGNAL PROCESSING, LINUX, DOCKER, GITHUB, DIGITAL ELECTRONICS, EMBEDDED SYSTEMS, FPGAs and COMPUTER-AIDED DESIGN