MOHAMMAD HOSSEIN ASKARI HEMMAT

PERSONAL INFORMATION	□ m.h.askari.hemmat@gmail.com ↑ http://hossein1387.github.io/ ↑ https://github.com/hossein1387/	
RESEARCH INTEREST	 Making Deep Neural Networks more computationally efficient Deep Learning Acceleration 	
Education	• Ph.D. student in Electrical and Computer Engineering Polytechnique Montreal, Montreal, Quebec, Canada, IFT6135 Representation Learning (Deep Learning) (A-) ELE8307 Rapid prototyping of digital systems	2018-
	• Master of Applied Science in Electrical and Computer Engineering 20 Concordia University, Montreal, Quebec, Canada Total GPA: 4.15/4.3	13-2015
	·	08-2012
Publications	 Towards code generation for ARM Cortex-M MCUs from SysML activity diagrams M. H. Askari-Hemmat, O. A. Mohamed and M. Boukadoum, ISCAS - International Symposium on Circuits and Systems 2016, Montreal Formal Modeling, Verification and Implementation of a Train Control System M. H. Askari-Hemmat, O. A. Mohamed and M. Boukadoum, ICM 2015 - 27th International Conference on Microelectronics Automatic Mapping of AF3 specifications to ARM Cortex-M based FRDM platform M. H. Askari-Hemmat, O. A. Mohamed and M. Boukadoum, ICM 2014 - 26th International Conference on Microelectronics Duplication Avoidance for Energy Efficient Wireless Sensor Networks A.Mahani, M. H. Askari-Hemmat and Yousef S. Kavian, 8th International Symposium on Communication Systems, Networks & Digital Signal Processing (CSNDSP), 2012 	
Honors and Awards:	 ReSMiQ Scholarship for M.SC students Partial Tuition Scholarship for International Students Graduate Student Support Program (GSSP) scholarship 	pr 2014 leb 2014 lay 2013 lay 2013 an 2013
Work Experience	• ASIC Verification Engineer at Microsemi (June 2016 to Present) - Working on next generation of Optical Transport Network (OTN) processors - Writing tests in SystemVerilog using UVM methodology - Developing Ethernet traffic generator in C++ - Developing scripts for analyzing test outputs	
	 Software Engineer at TRU Simulation + Training (2015-2016) Developing software drivers for various high speed avionic protocols in C++: Air 	

- Developing scripts for running various avionic simulation packages

- Building custom linux kernels as well as maintaining linux machines for the hosts

bus VCOM, AFDX, A429

and re-hosts of the test station

Languages English

English (Fluent), Persian (Native), French (B2)

COMPUTER SKILLS:

- \bullet Machine Learning Frameworks: PyTorch
- Programming Languages: C/C++, Python, Scala, Bash
- \bullet Hardware Description Languages: System Verilog, Chisel, System C
- Version Control Management: Git, SVN

References

• Jean Pierre David (PhD Supervisor)

Electrical and Computer Engineering Department Ecole Polytechnique de Montral Montreal, Quebec, Canada E-mail: JPDavid@polymtl.ca

• Yvon Savaria (PhD Co-Supervisor)

Electrical and Computer Engineering Department Ecole Polytechnique de Montral Montreal, Quebec, Canada E-mail: yvon.savaria@polymtl.ca

• Dr. Otmane Ait Mohamed (Master Thesis Supervisor)

Electrical and Computer Engineering Department
Concordia University
Montreal, Quebec, Canada
E-mail: otmane.aitmohamed@concordia.ca

• Dr. Sofiene Tahar

Electrical and Computer Engineering Department Concordia University Montreal, Quebec, Canada E-mail: tahar@ece.concordia.ca