

Curriculum Vitae – Azmi A. Haider

August 22, 2023

Hello world! I'm an experienced **algorithms engineer** in the field of **computer vision/ image processing**.
I'm a focused self-learner looking for an interesting challenge dealing with machine learning/3D reconstruction/depth sensing/estimation and tracking in computer vision.

(1) Personal Details:

Mobile phone number: +972 547853396.

Email address: azmi.haider92@gmail.com

Website: <https://www.azmihaider.com/>

(2) Academic Training:

2021 – current	University of Haifa <i>PhD in computer science.</i> Research topic: Generative NeRFs*. Supervisor: Dr. Dan Rosenbaum	Haifa, Israel
2017 - 2020	University of Haifa <i>MSc. (With research) In computer science.</i> Research topic: Forgery in 3D-sensor images*. Supervisor: Dr. Hagit Hel-Or	Haifa, Israel
2012 - 2017	Technion- Israel Institute of Technology <i>BSc. In electrical engineering.</i> <i>Major: Computer and software engineering.</i>	Haifa, Israel
2011 - 2012	Technion- Israel Institute of Technology pre-university education.	Haifa, Israel

(*) – more details on the dissertations on my website.

(3) Professional Activities:

2022 – 2023	University of Haifa Teaching assistant – Image processing course	Haifa, Israel
2021 – 2022	Intel corporation Data scientist (part-time) for a face recognition project: Work included implementing computer vision and image processing algorithms for detection/cleaning/synthesizing images to enlarge the training datasets for deep neural networks. Work also included a vast understanding of deep neural networks and tweaking them.	Haifa, Israel
2015 – 2021	Intel corporation Validation (part-time and full-time) for Intel's RealSense 3D cameras: Defining and building assessment metrics for depth camera models: <ul style="list-style-type: none">• Research of existing image quality metrics.• Building (or acquiring) physical targets/boards required for a specific metric analysis.• Defining data collection parameters.• Building computer vision/ image processing algorithmic implementations of classification/detection for each metric.• Building automated analysis reports.	Haifa, Israel

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(4) Technical knowledge and Courses:

- **Python** (during data science work in Intel and in my PhD – for the last 3-4 years)
 - OpenCV
 - PyTorch
- **Matlab** (during work at intel RealSense 3D cameras – for 6 years)
- Knowledge in **Machine Learning/Deep Learning/Generative Models**
 - Courses at the university included: Machine Learning, Deep Learning.
 - Work in the PhD deals mostly with Generative models.
 - Check out deep learning projects on my Github (links below)
- Knowledge in **Image processing, Computer vision and depth sensing**
 - Courses at the university included: Image processing, Computer vision, Advanced topics in computer vision, Multiple view geometry in computer vision.
 - Work during master's degree included dealing with depth sensor and point clouds.

(5) Scores and awards:

2022 – current	DSRC scholarship for PhD students – data science research center, University of Haifa.
2021 – current	Excellence scholarship for PhD students , University of Haifa.
2020	Finished (master's degree) 3rd in class – GPA: 94.
2018 – 2019	Research funding: Israeli Science Foundation (ISF), University of Haifa.
2018	Research funding: The Center for Cyber Law and Policy (CCLP), University of Haifa.
2011 – 2016	N.A.M scholarship for Outstanding Arab Youth: Full degree scholarship, Technion.

(6) Projects and publications:

2023	Deep learning project: Building Perfect-loop-gifs using NeRF. https://github.com/AzmiHaider92/Perfect-loop-gif-nerf	University of Haifa
2022	Deep learning project: Painter by Number - a Kaggle Challenge https://github.com/AzmiHaider92/PainterByNumbers	University of Haifa
2022	Paper: What can we learn from depth camera sensor noise? https://www.mdpi.com/1424-8220/22/14/5448 Paper published in Sensors Journal .	
2021	Paper: Judicial Errors: Fake Imaging and the Modern Law of Evidence This is a joint work with the faculty of law in the university of Haifa about the use of visual proof in the court of law. Published by the University of Illinois Chicago. https://heinonline.org/HOL/LandingPage?handle=hein.journals/johnmars21&div=12&id=&page=	University of Illinois Chicago
2018	Paper: Forgery detection in 3D-sensor images Lecture given as part of the CV-COP: the bright and dark sides of computer vision. The workshop was part of CVPR in Salt Lake City, Utah, USA. https://openaccess.thecvf.com/content_cvpr_2018_workshops/w32/html/Privman-Horesh_Forgery_Detection_in_CVPR_2018_paper.html	Utah, USA