ODDED **GEFFEN**

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EDUCATION

2018 - 2020

M.Sc. Electro Optical Engineering, Specializing in Image Processing and Machine Vision Systems, BGU

Grade point average of 90.

- **Thesis in Machine Vision for Precision Livestock Farming.**
- **Awarded Best Poster presentation -** For excellence in research, at the Electro Optical Engineering unit at BGU.

2013 - 2017

B.Sc. Mechanical Engineering, BGU

- **B.Sc. Honor Student** – For academic achievements of the 1st year class.

EXPERIENCE

2020 – Present
Deep Learning and Computer Vision Algorithm Developer at 'MEDHUB'

- Developing computer vision deep learning algorithms for a medical device, that will ensure cardiac catheterization with minimal invasion.
- Experience with tasks such as: segmentation, detection, classification and with generative adversarial models.
- Conducting research, analyzing academic articles, and implementing different algorithms using Python and frameworks such as: Pytorch, Tensorflow and keras.
- Problem solving applying Kaggle approaches to maximize precision.
- Collaborating with the integration team, to integrate algorithms within the system.

2017 – 2020
Research Student at the Agricultural Research Organization 'Volcani Center'

- Agricultural Research in the field of Machine Vision Systems.
- Writing a Thesis in Machine Vision for Precision Livestock Farming.

2016 – 2017
Mechanical Engineer at 'Pandoi'

2015 – 2016
Mechanical Engineering Student at 'Intel'

TECHNOLOGIES

- Knowledge in Machine Vision, Deep Learning, Image Processing.
- Python, C, and Frameworks such as: PyTorch, Keras, Tensorflow, OpenCV, pandas, and SciPy.

PUBLICATIONS

- Geffen O, Yitzhaky Y, Barchilon N, Druyan S, Halachmi I. (2020). ***A machine vision system to detect and count laying hens in battery cages***. Animal, doi:10.1017/S1751731120001676, Published online by Cambridge University Press 14 July 2020.
- Geffen, O., Yitzhaky,Y., Barchilon, N., Druyan S., Halachmi I.(2019). ***Developing a machine vision system for detecting laying hens*****.** In Proceedings of the 9th European Conference on Precision Livestock Farming, ECPLF Conference, 26-29 August, Cork, Ireland, pp. 428–433. S
- Geffen, O., Yitzhaky,Y., Glassner,H.,Katzir,G., Halachmi I.(2019). ***Developing an automatic system aiming to detect and deter migrating birds from aquaculture ponds.*** In Proceedings of the 9th European Conference on Precision Livestock Farming, ECPLF Conference, 26-29 August, Cork, Ireland, pp. 899–902.
- Golan, Y., Geffen, O., Gordon, S., Shapiro, A. (2018). ***Examining the Prospect of Mechanical Filters for Under-Actuation***.

LANGUAGES

Hebrew – Native Speaker **English – Fluent**

MILITARY SERVICE

2006-2009
Commanding Officer at the Infantry Paratroopers Brigade

- Commanding a group of soldiers and participating in operations such as operation cast lead (Mivtza Oferet Yezuka).