

## **Eitan Brown**

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### **Professional knowledge:**

High level of proficiency with Computer Vision (filtering, object detection, histograms) and Machine Learning (training models, building data bases and calculating ERR), Object Oriented Programming (design patterns, polymorphism and etc.) Statistical analysis of data, Physics (Understanding of physical concepts in the field of semiconductors and optics including lab experience). Knowledge and experience with Tensorflow.

Software language: C/C++, Matlab, Java and Python.

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### **Education:**

**2012-2015:** MSc in electrical engineering from Tel Aviv University. Thesis was in the field of power systems and control, title "Demonstrating the advantages of Synchronverters for power grid stability".

**2009-2012:** BSc in computer engineering from the Hebrew University of Jerusalem, specializing in microelectronics and optoelectronics.

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### **Courses And Advanced study:**

**2018** Unrerl Engine Developer course - Udemy

**2018** Deep Learning specialization (5 courses), Andrew Ng - Coursera

**2017** *Data Science and Machine Learning with Python* - Udemy

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### **Work experience:**

**2020-current: L1ght** - Researcher in the field of computer vision. Designing and training CNN models for face detection (Yolov4), age classification, Sexual content classification, face recognition and others. The main goal is to detect pedophilic content in images and videos, in the most efficient and robust manner possible. Many challenges in the data domain, development from POC to production.

**2018-2020: Here Mobility** – Researcher in the field of computer vision. Designing and training CNN models for car collision detection in python, Tensorflow. Creating synthetic car collision data using Unreal Engine and Carla framework. Project was done from scratch including gathering and labeling the data.

**2017-2018: RoboTemi** - Algorithm engineer.

Developing a texture recognition deep neural network using Tensorflow for the purpose of distinguishing between shirts to allow the robot to recognize its current user

**2015-2017: IsItYou** - Research engineer.

Developing the next generation face recognition engine using computer vision and machine learning techniques that allowing it to identify biometric attacks.

- Devise defenses against potential face recognition hacks using machine learning and computer vision to detect and characterize physical effects created by the attacking media.
- Improving and revising face recognition using statistical analysis and modeling with OpenCV and Matlab. Training the models and improve the process of face detection.
- Building the core technology using C++ and JNI for our mobile products (iOS/Android).

**2012-2015: Tel Aviv University** - Research Assistant.

Improving the stability of an electricity network that uses renewable energy under the provision of professor George Weiss.

- Designing control algorithms of a DC/AC converter for renewable source.
- Building a simulation environment with Simulink and Simpower of power grids.
- Implementing Academic theories about renewable energy controllers
- Testing existing controllers using Matlab and C++.

**2010-2011: Sonarium Medical** - Algorithm developer intern.

Implementing image processing algorithms in Matlab and later in C.

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**Publications:**

*Using synchronverters for power grid stabilization*

E. Brown and G. Weiss.

IEEE Convention of Electrical and Electronics Engineers in December 2014.