# CURRICULUM VITAE Dov Katz

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#### **Education**

Postdoc Computer Vision & Machine Learning, Carnegie Mellon University, March 2012

Ph.D. Computer Science, University of Massachusetts Amherst, September 2011

M.Sc. Computer Science, University of Massachusetts Amherst, May 2008

B.Sc. Computer Science and Electrical Engineering, Tel-Aviv University, May 2004

## **Professional and Research Experience**

## Founder, Minerva Technologies

Developing innovative computer vision and machine learning algorithms to disrupt the brick & mortar shopping and checkout experience.

## Head of Computer Vision, Oculus/Facebook

Led Oculus' computer vision and machine learning R&D group (about 80 engineers, scientist and managers). Managed multiple M&A activities, defined product strategy, created independent high throughput teams, shipped exciting technologies to consumers.

## Senior Computer Vision Engineer, Oculus VR

Led Oculus' computer vision R&D. Designed, developed and shipped a high accuracy and low latency position tracking system. Involved in camera design, driver and interface implementation. Participated in manufacturing efforts.

## Postdoctoral Fellow, Carnegie Mellon University

Conducted research in autonomous mobile manipulation with focus on perception in unstructured environments. Developed state-of-the-art perception algorithms for detecting, tracking and modeling novel objects (natural and man-made). Integrated machine-learning methods to enable lifelong learning of robotic perception and manipulation skills.

2017-Present

2013-2017

2012-2013

2011-2012

Researc	h Assistant,	Tech	ınical	Univ	ersity	of Berl	lin

Designed and supervised the implementation of a new robotic platform. Led a team of PhD students in the design of a new software library. Involved in hiring decisions.

2009-2011

Research Assistant, University of Massachusetts Amherst

Conducted various research projects on autonomous mobile manipulation in the robotics research lab.

2005-2009

# Research Assistant, Tel-Aviv University

Led a research project on matching emotional states with facial expression using computer vision, in the research group of Prof. Messer-Yaron.

2003-2004

# Software Engineer, Zend Technologies

Directed the design and implementation of software packaging on multiple operating systems for the leading web scripting language PHP. 2000-2005

# **Patents**

Title	Patent Number	Date of Patent	
Face and eye tracking using facial sensors within a head-mounted display	9959678	May 1, 2018	
Rolling shutter blur reduction using motion data	9854170	December 26, 2017	
Stereo-based calibration apparatus	9805512	October 31, 2017	
Calibration of virtual reality systems	9779540	October 3, 2017	
Calibration of multiple rigid bodies in a virtual reality system	9600925	March 21, 2017	
Calibration of virtual reality systems	9524580	December 20, 2016	
Facial animation using facial sensors within a head-mounted display (pending)	20170352178	December 7, 2017	
Tracking portions of a user's face uncovered by a head mounted display worn by the user (pending)	20170287194	October 5, 2017	
Non-overlapped stereo imaging for virtual reality headset tracking (pending)	20170192232	July 6, 2017	
Hand-Held Controllers with Light-Emitting Diodes Synchronized to an External Camera (pending)	20160364910	December 15, 2016	
Tracking Controllers of a Virtual Reality System (pending)	20160364013	December 15, 2016	
Sparse projection for a virtual reality system (pending)	20160259168 September 8, 2016		