

Yan Michalevsky

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Electrical Engineering
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- RESEARCH INTERESTS** Computers Security and Systems, Mobile Security and Privacy, Applied Cryptography, Network and Web Security and Privacy.
- EDUCATION**
- Stanford University**
PhD, Electrical Engineering expected October 2017
MS, Electrical Engineering Aug 2014
- Technion - Israel Institute of Technology**
B.Sc, Electrical Engineering, *Cum Laude* Aug 2010
- Software Engineering, Security and Networks Architecture** 2001
As part of a military training in IDF intelligence corps
- EXPERIENCE**
- Cryptography Research (Rambus)** July 2017 - Sep. 2017
Research Intern
Research in cryptography and hardware security.
- NXP Semiconductors** Jan. - March 2017
Research Intern
Worked on cryptographic schemes for functional encryption. Filed a patent and wrote a research paper that is currently under submission.
- BoxStream** Aug 2015 - Present
Founder and developer
Cloud music streaming application for Android with several hundreds of active users.
<http://www.boxstreamapp.com>
- Microsoft Research, Redmond WA** June - Sep. 2015
Research Intern
Research privacy and mutual authentication over BLE for mobile devices.
Results published in the proceedings of MobiCom'16.
- Sookasa** (acquired by Barracuda Networks) June - Sep. 2013
Software Engineering Consultant
Sookasa provides security for Dropbox. I developed Sookasa's Android application and a prototype of the virtual encrypted file-system solution for Sookasa's Windows client.
- Software Engineering Contractor** Jan. - Aug. 2012
Independent Contractor
I was a software developer contractor for Integrity-Project where I developed a Linux driver for a wireless communication product, and for AutoTalks Ltd., where I developed a high-performance testing environment for a wireless protocol on an embedded platform.

IDF Intelligence 2010 - 2012
Team Lead

Commanded a team of 8 developers working on a wide range of security, networking and operating systems related projects. My responsibilities included project planning, integration with other teams, design and code reviews, and development.

AcceloWeb Technologies (Limelight Networks) June - Oct. 2009
Software Engineering Contractor

Worked on web-browsing acceleration. Implemented Apache extensions, caching solutions and integration of Java code with Apache using JNI.

Vaorta 2009
VoIP Security Consultant

Responsible for analyzing the communication infrastructure of a big financial company and advising on security policy.

Infosys Technologies, Bangalore, India Jul. - Oct. 2007
Research Intern

Participated in InStep, Infosys's global internship program. Done research on high-scale software analysis.

Digicash 2006 - 2007
Software Engineer

A start-up company in the domain of advertisement and micro-payments. Responsible for several projects such as our build and deployment environment, automatic software update framework and digital signature and verification of the products digital cash-notes.

Elite Israeli Intelligence Unit 2001 - 2006
Software Engineer and Project Lead

I worked on real-time software development on embedded platforms, participated in large-scale projects including development of a proprietary compiler, and architected a large subsystem including supervising two other engineers. I was granted an excellence award for my service.

IDF Intelligence Corps 2004
C++ Instructor

Designed a syllabus and gave lectures on C++ over the course of an elite technological military training to 25 trainees.

**PEER-
REVIEWED
PUBLICATIONS**

SpaceTEE: Secure and Tamper-proof Computing in Space using CubeSats
Yan Michalevsky and Yonatan Winetraub
ACM Workshop on Attacks and Solutions in Hardware Security (ASHES 2017)

Online Detection of Effectively Callback Free Objects with Applications to Smart Contracts

Shelly Grossman, Ittai Abraham, Guy Golan-Gueta, Yan Michalevsky, Noam Rinetzky, Mooly Sagiv and Yoni Zohar

To appear in POPL 2018

Acceptance rate: 20%

MASHaBLE: Mobile Applications of Secret Handshakes over Bluetooth LE

Yan Michalevsky, Suman Nath and Jie Liu

MobiCom 2016
Acceptance rate: 14%

PowerSpy: Location Tracking using Mobile Device Power Analysis
Yan Michalevsky, Gabi Nakibly, Aaron Schulman, Gunaa Arumugam Veerapan-
dian and Dan Boneh
USENIX Security 2015
Acceptance rate: 15%

Gyrophone: Recognizing Speech from Gyroscope Signals
Yan Michalevsky, Gabi Nakibly and Dan Boneh
USENIX Security 2014
Acceptance rate: 19%

Extending the Faust VST Architecture with Polyphony, Portamento and Pitch Bend
Yan Michalevsky, J.O. Smith and Andrew Best
LAC 2014

Speaker Identification using Diffusion Maps
Yan Michalevsky, Ronen Talmon and Israel Cohen
EUSIPCO 2011

Fast H.264 Picture-in-Picture (PIP) Transcoder with B-slices and Direct Mode Support
Yan Michalevsky and Tamar Shoham
MELECON 2010

Venus: Verification for Untrusted Cloud Storage
Alexander Shraer, Christian Cachin, Asaf Cidon, Idit Keidar, Yan Michalevsky
and Dani Shaket
CCSW 2010

ADDITIONAL PUBLICATIONS **Mobile Device Identification via Sensor Fingerprinting**
Hristo Bojinov, Yan Michalevsky, Gabi Nakibly and Dan Boneh
Technical report

SELECTED TALKS **Mobile Security and Privacy: Attacks and Defenses**
PhD Oral Defense, Stanford University, May 2017
VMware Research
Visa Research

MASHaBLE: Mobile Applications of Secret Handshakes over Bluetooth LE
MobiCom 2016
Security Seminar at Columbia University
Black Hat Asia 2017

Securing Distributed Computation via Trusted Quorums
Systems Seminar at Hebrew University

Eavesdropping, Location Tracking and Other Side-Channels on Mobile Devices

CyberTech 2016, Tel Aviv

PowerSpy: Location Tracking using Mobile Device Power Analysis

USENIX Security 2015

Stanford Annual Security Workshop 2015

Bay Area Security Research Summit 2015

Side-Channel in the 21st Century: Information Leakage from Smartphones

RSA Conference US 2015

Side-Channel Attacks on Mobile Devices

Cryptography Research Inc., Dec. 2016

Qualcomm Research, Feb. 2015

UIUC CSL Student Conference 2015

Gyrophone: Recognizing Speech from Gyroscope Signals

USENIX Security 2014

Black Hat Conference EU 2014

**SELECTED
PRESS
COVERAGE**

[Wired.com](#) — Spies Can Track You Just by Watching Your Phones Power Use

[BBC.com](#) — Battery power alone can be used to track Android phones

[KQED TV](#) — Interview about PowerSpy

[Wired.com](#) — The Gyroscopes in Your Phone Could Let Apps Eavesdrop on Conversations

[SFGate](#) — Stanford researchers discover ‘alarming’ method for phone tracking, fingerprinting through sensor flaws

AWARDS

Qualcomm Innovation Fellowship Finalist 2017

Sohnis Promising Scientist Award

Technion’s Excellence Program - full scholarship

Technion EE Dean’s Honors List

Excellence Award for Military Service

**ACADEMIC
SERVICE**

Organizing Committee of the 1st ACM Workshop on the Internet of Safe Things (SafeThings 2017).