

Max Gotman

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Professional Summary

Wireless phy / systems design professional with extensive experience leading high-speed modem development teams responsible for top-tier products worldwide. Co-inventor of more than 15 internationally approved patents. Proven track record in managing system development and integration of complex, market-leading wireless systems under fast-paced, time-to-market-driven conditions.

Languages

English (Working and everyday knowledge, 7.5-8 TEFL grade); Russian (Native); Hebrew (Fluent); French (B2/C1)

Professional Experience

- Sequans, Ramat-Gan, Israel | 2020 – Present
 - Sr. Baseband Expert (from Sep 2024)
 - Deputy Manager – Sr. Manager, Algorithms (from Jun 2022)
 - Architected and developed 4G/5G UE baseband commercial ASICs for broadband and IoT applications.
 - Designed control and data channel algorithms including MIMO demodulators, channel estimation, DFE, CSI reporting.
 - Developed C++ fixed-point models and specs for ASIC and embedded DSP SW design and verification.
- Sckipio, Ramat-Gan, Israel | 2018 – 2020
 - Director, Algorithms
 - Designed Tx/Rx precoder and canceller algorithms for G.fast services with advanced LP optimization techniques implemented in commercial products.
 - Delivered MATLAB simulations and fixed-point models for firmware implementation.
- MaxLinear, Herzliya, Israel | 2017 – 2018
 - Director, Communication Systems
 - Led DSP team creating a novel DOCSIS 3.1 CMTS FDx echo canceller system part of a commercial BS ASIC.

- Directed global DSP team in digital subsystem development for a commercial 4G/5G MMR/AAS transceiver ASIC developed for and in cooperation with the 1st tier providers of cellular RAN infrastructure equipment.
- Qualcomm Technologies Inc., Hod-HaSharon, Israel | 2012 – 2017
 - Director, Engineering; Principal Engineer (2016-2017)
 - Led algorithm teams for four generations of advanced commercial baseband SoCs for high-speed cellular access.
 - Last role involved developing 5G UE modem
 - Ten patent applications, six granted.
- DesignArt Networks LTD., Ra'anana, Israel | 2006 – 2012
 - Senior Director, Algorithms and DSP
 - Led algorithm and DSP SW teams for two commercial SoC generations, delivering multi-standard BS (WiMAX, LTE, backhaul) apps.
 - Co-authored five Qualcomm patents.
- EPOS Technologies LTD., Kfar-Saba, Israel | 2004 – 2006
 - Manager, Algorithms Department
 - Developed acoustics-optics hybrid positioning technology with advanced signal separation techniques. Products are commercially available.
- Intel Corp., BWD, Petah-Tikva, Israel | 2003 – 2004
 - Sr. DSP Architect
 - Contributed to Intel's IEEE 802.16d/e compliant chipset and advanced modem architecture.
- ALVARION LTD. (FLOWARE), Tel-Aviv, Israel | 1996 – 2003
 - DSP Engineer / DSP Team Leader (since 1999)
 - Led modem development for broadband access systems and supervised cross-functional teams for commercial backhaul and last-mile solutions.
 - Co-authored two approved patents.
- Motorola Communications Israel, Tel-Aviv, Israel | 1994 – 1996
 - DSP Development Engineer
 - Developed DSP algorithms in multinational projects for private radios; worked in Schaumburg, IL, facility.
- Motorola Communications Israel, Tel-Aviv, Israel | 1993 – 1994

- Graduate Student Intern
- Developed LQE algorithms for Motorola's commercial HF modem; submitted patent application.

Education

MSEE Candidate – Tel-Aviv University, Israel

- Completed the entire no-thesis coursework in signal processing, digital communications, and computing.

BSEE – Ben-Gurion University of the Negev, Israel (1994)

- Degree in Electrical and Computer Engineering – Focus on signal processing and communications.

MSEE Candidate – Kiev Polytechnic Institute, Ukraine

- Program in Nuclear Power Stations terminated due to relocation to Israel.

Skills and tools

Programming, computers

- C, C++, MATLAB, Python; GitLab, SVN, Perforce; Linux/Debian, Windows.

Testing Equipment

- Keysight and Rohde-Schwartz signal generators, gNB emulators, channel emulators, vector signal and protocol analyzers; Signal Studio, VSA SW, WaveJudge.

Patents

ID	Title	Assignee	Lead /Co-inventor
Application SEQCO.067	A Taylor expansion approximation based direct FD channel autocorrelation estimation and applications	Sequans Communications	Co-
EP-2800325-A2	A method and apparatus for crest-factor reduction in telecommunications systems	Qualcomm Incorporated	Lead
US-2014226511-A1	Calibration of a downlink transmit path of a base station	Qualcomm Incorporated	Lead
EP-2378696-A1	A method and system for HARQ combining in a telecommunication system	Designart Networks Ltd	Lead
US-2014254644-A1	Combined imbalance compensation and equalization of a signal	Qualcomm Incorporated	Lead
WO-2014100701-A1	Data-modulated pilots for phase and gain detectors	Qualcomm Incorporated	Lead
EP-2936719-A1	Systems and methods to mitigate phase noise	Qualcomm Incorporated	Lead
WO-2014168766-A9	Frequency dependent i/q impairment compensation	Qualcomm Incorporated	Lead
EP-2391044-A3	A receiver for a wireless telecommunication system with a channel deinterleaver	Qualcomm Incorporated	Lead
US-2010157970-A1	Multiple antenna wireless telecommunication method and system	Designart Networks Ltd	Lead
US-2012014480-A1	Method for soft modulation in a wireless telecommunication network	Designart Networks Ltd	Lead
EP-2410686-A3	Advanced LLR processor for wireless telecommunication system	Designart Networks Ltd	Lead
US-2013188578-A1	High-capacity wireless communications system	Qualcomm Incorporated	Co-
US-2013188579-A1	Mimo/xpic receiver	Qualcomm Incorporated	Co-
EP-0993159-A3	Estimation of carrier frequency offset	Floware System Solutions	Co-
EP-0996261-A2	Method and system for rapid synchronization of a point to multipoint communication system	Floware System Solutions	Co-
US-2012086675-A1	Method and system for digital pen assembly	Epos Development Ltd.	Co-