

Nisan Shapira

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Abstract

Senior Power Electronics engineer with 15 years of R&D experience in the industry.

Education

M.Sc in Electrical Engineering

Tel-Aviv University, Israel, Sep 2011

Research: Solar power conversion.

Power processing, dynamics of switch mode power converters, electromagnetic devices design, control techniques in power electronics.

B.Sc in Electrical Engineering

Ben Gurion University, Israel, Jul 2004

Power electronics and DC/DC converters, analog circuits, electronic systems and magnetic devices.

Professional experience

Dec 2019 – present: Present company

Power electronics team lead, EV charging solutions

Leading the development of a 3-phase rectifier for charging electrical vehicles and designing an electric vehicle charging station for multiple vehicles.

Mar 2017 – Dec 2019: Solaredge, Israel

Senior power electronics engineer, Energy storage, RnD

Development of power converters for the energy storage product line. Design of bidirectional insulated DC/DC converters as part of an energy storage system integrated into a 3-phase solar inverter.

Dec 2014 – Mar 2017: General Electric Lighting, Israel

Systems engineer, global LED drivers group

Responsible for product specification, regulatory compliance and product line technical support for LED drivers and lighting controls. Provided consultation to global design teams on product EMC, reliability, safety and regulatory. Supported and trained the product service organization. Managed an outsourced firmware engineering team for firmware development and maintenance. Managed the development of automatic test bench for LED drivers.

Aug 2012 – Dec 2014: General Electric Lighting, Israel

Electrical design engineer, global LED drivers group

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Leading design projects and designing LED drivers and power converters for LED systems, for the EU and the NA markets. Responsible for all project phases from prototype to mass production. Designed resonant converters and TM PFC for dual and single stage LED drivers. Developed a 1MHz soft switched quasi-resonant Cuk converter for insulated LED drivers. Designed and tested UL class 2 power supplies.

Jul 2010 – Aug 2012: ECI Telecom, Israel **Power electronics engineer, Power supply design group**

Designed power electronic solutions for the telecom industry, in board level and system level. Designed DC/DC converters. Designed planar and integrated magnetics. Performed board design and layout of multi-layer PCB's. Designed solutions for EMC and safety standards compatibility. Designed an FPGA based power monitor and power supplies sequencer.

Jan 2005 – Jul 2010: Gamatronic, Israel **Power electronics engineer, R&D**

Designed switch mode rectifiers, DC/DC converters and power systems for the telecom industry. Designed micro-controller-based power system controller, for system monitoring, control and battery management. Programmed micro-controller embedded firmware in C and assembly to implement real time control and monitoring. Performed PSPICE, PSIM, and MATLAB based simulations of power converters and control loops. Prepared products for EMC and safety certification. Participated in the design of 3-200 KVA 3 phases UPS systems. Trained major clients to operate and maintain UPS systems.

Languages

Hebrew, native, English, fluent