

Vlad Goldstein

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SUMMARY

Extensive work experience in the design of broad-spectrum advanced electronic systems with the emphasis on power electronics. Technical project leadership and project engineering experience.

Design expertise

- Analog and digital circuit design, design of SMPS
- PCB layout design compliant to 60950-1, 61000 standards
- Pre-production documentation and testing
- Circuit simulation
- Embedded programming in C
- MTBF, FMEA calculations

Specialization

- Design of Switched Mode Power supplies

Security Clearance Level: Secret/ Red

SKILLS

Tools: Altium, Orcad, PSpice, MatLab Simulink, Mentor Expedition, Saber RD64, Mathcad, Reliability prediction software

Standards: MIL-STD-704, UL/CSA 60950-1, IEC61000 EMC standards

Project Tools: Microsoft Office: Word, Excel, Visio, MS Project, PowerPoint, MS Outlook

Business Skills: Technical project lead experience

Tools: Embedded C

PROFESSIONAL EXPERIENCE

*****, Yaphank, NYC

May 2023 to present

Senior electrical design Engineer power electronics

- Matlab simulation of 10kw Phase shift full bridge power supply
- Pspice simulation
- Support and upgrade of existing systems

Raytheon, Marlborough, MA

November 2020 to May 2023

Senior Electrical Engineer analog/ power design

- Update of existing designs
- HVPS (high voltage power supply) re-design
- Support of installation and upgrade of existing systems
- Design ark detection system to analyze yield deficiencies

IoTecha, Piscataway, NJ

May 2019 to November 2020

Senior Hardware Engineer

- Design of power and analog electronics subcircuits in EV charging control modules
- Design of Flyback power supply with 5mw no-load Power Consumption

AstrodyneTDI, Hackettstown, NJ

March 2017 to April 2019

Design Engineer Power Electronics

Responsibilities include lead in several design of power supplies projects, technical documentation.

- Design of 1500 watt interleaved PFC AC DC converter;
- Design of 1500 watt phase shifted full bridge DCDC converter;
- Design of extended Hold-Up time coupled inductor boost sub-unit;
- Redesign of double switch DCDC forward converter;
- Schematic design;
- Design of power transformers and chokes;
- Lab work -prototyping

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GLOBALTEK, Northvale, NJ

Jan 2015 to Feb 2017

Design Engineer Power Electronics

Responsibilities include embedded firmware development, analog and digital circuit design, technical documentation, PCB layout design, and manufacturing support.

- Flyback redesign to Star 6 energy efficiency requirements
- Design of 802.3af/at-compliant POE injector
- Design of smart charger for Li smart battery pack
- Design of USB type-C Power Delivery power source
- Atmel microcontroller C programming
- Schematic design
- Lab work - tuning of prototype boards

FAIVELEY TRANSPORT NORTH AMERICA, Greenville, SC

Feb 2014 to Dec 2014

Project engineer

Managed project risk reduction, cost avoidance, and product improvement.

- Product: Auxiliary power supply units for railway cars
- Evaluated and approved new supply sources.
- Project support of design, installation, testing, Extensive travel across multiple geographic regions in dynamic and high pressure environments
- Preliminary DR, Critical DR presentations
- Project documentation

INNOVATIVE POWER SOLUTIONS, Eatontown, NJ

Apr 2010 to Feb 2014

Electrical design engineer

Responsible for project management and design of generator control units for synchronous generators up to 100 kva with brushless static excitation. Created prototypes and manufacturing support of GCUs for APS (Auxiliary Power System) Generators.

- Functional design and Schematic Design: Cadence Orcad
- PSpice simulation, MATLAB Simulink simulation
- PCB Layout: PADS9.3
- Lab testing/tuning of design prototype boards
- MIL-STD-1472; MIL-PRF-21480; MIL-STD-704
- Project documentation, PDR, CDR presentation, FMEA, Reliability Prediction

POWERWEB INC., Philadelphia, PA

Aug 2007 to Mar 2010

Electronics design engineer

Design of power supplies, ballasts, battery chargers, and microcontroller regulated light systems.

- Feasibility study, prototyping, determining topology
- Schematic design
- Layout design, BOM, Gerber files
- Atmel microcontrollers, C programming
- UL/ CSA standards compliance, UL 60950-1 Standard

PROFESSIONAL DEVELOPMENT/TRAINING COURSES

- Saber RD64 course 2021
- Mentor Expedition course 2021
- Introduction to FPGA design for embedded systems, University of Colorado/ Coursera 2019
- Power Supply Design Seminars, Texas Instruments 2015-2016
- Power Supply Design Lab Workshop, Ridley Engineering 2014
- PMP (project management professional) course 2014
- Computer architecture and C programming 2010

EDUCATION

Haagse University, Hague, Netherlands – University of Teesside, England

Master of Business Administration (MBA), 1998

Technical University, Saratov, Russia

Master in Electrical Engineering, 1989