

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

- Design of analog and digital Switched mode power supplies
- Analog and digital circuit design
- Simulation in MATLAB and PSpice, Mathcad
- Design of digital SMPS on basis of TI C2000 DSP microcontrollers
- Simulation and programming of TI C2000 DSP microcontrollers with use of MATLAB and TI CCS
- PCB layout design compliant to 60950-1, IEC 62368-1 (safety), 61000 (EMS) standards
- MTBF, FMEA calculations
- Pre-production documentation and testing
- Embedded programming in C
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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

Esco Maritime Yaphank, NYC

May 2023 to present

Senior electrical design Engineer power electronics

- Matlab simulation of 10kw Phase shift full bridge power supply
 - Pspice simulation
 - System modernization involves integrating advanced Silicon Carbide MOSFETs.
 - Design control board for the digitally controlled phase-shifted full bridge utilizing the Texas Instruments C2000 microcontroller.
 - Upgrade existing 10kW digitally controlled PFC/Vienna rectifier to 70kW
- Design high-frequency magnetic components for the 70kW Vienna rectifier

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

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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

GLOBTEK, 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

PROFESSIONAL DEVELOPMENT/TRAINING COURSES

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| ▪ 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)

Technical University, Saratov, Russia

Master in Electrical Engineering, 1989