

Dean Cabiri

E-mail: deanca775@gmail.com | Phone: +972-546887111 | Date of birth: 10/07/1992 | City: Tel Aviv

2 years of experience at SolarEdge working on 10kW capacity Batteries.

Taking Initiative • Hard Worker • Great Team Player • Self-Learner • Organized

Work Experience:

Solar Edge: Residential Storage Group (10kW Battery) - Power Engineer (2021-2022)

- Design of Flyback converter, Push-Pull converter, Buck converter for Auxiliary Supply – includes stability analysis, efficiency, thermal analysis and size constraints
- LTSpice simulation for verification and optimization of the design
- Failure Analysis - debug failure, reproduce failure, re-design/optimize relevant circuit
- Define test plans for verification of new circuit designs in next Gen products
- Testing our designs with a variety of lab equipment
- Taking our design to the limit – create faults and characterize the system behavior

Solar Edge: Inverter Innovation Group – Student Power Engineer (2020-2021)

- Research new simulation platforms via simulation of Buck Converter
- Testing digital circuits (DSP, FPGA, communication signals) for an internal debug board

BGU Final Project – 10kW, 3phase Inverter – Head of Power (2020-2021)

- Research to get deep understanding of the inverter's operation and control
- Simulation in PSim – emphasizing on power train losses and open loop control
- Analysis of waveforms and losses of components using MATLAB
- Characterize the requirements of drivers for the power train FETS
- Cooperate with 3 project teams, to build a working prototype of 1PH inverter

Education: (2016-2021)

- **Ben-Gurion University of the Negev:** B.Sc in Electrical and Electronic Engineering Specialization in High Voltage, Nanotechnology & VLSI

Military service: (2011-2015)

- Captain at the special combat and drone operation technology unit "Sky Rider" ("חובב שמיים")
- Exclusive responsibility for the team's operational fitness and missions' execution
- Promote and apply new military tactics for the new unit and define the next system requirements with Elbit

Skills:

- Programming: C, Assembly, Matlab, Embedded programming
- Tools: P-spice, LT-spice, Psim, Orcad/Allegro, Jira, Agile, Confluence
- Operating lab scopes, signal generators, sensors, EMI lab equipment, etc
- Languages: Hebrew - native, English – fluent

Volunteering:

- Mentor at Ramon foundation: leading 9'th grade students in creating an experiment, designed to be sent to the international space station (2018-2019)
- Teacher at "Perach" program: teaching groups of 12'th grade students at 5 units level (2016-2017)
- Volunteering at Branco Weiss school (2015)