Bar Betzalel

Hardware Design Engineer

Phone +972 545673384
Email Barbetzalel4@gmail.com
Address David Elazar 51 Holon

EXPERIENCE

HARDWARE DESIGN ENGINEER — OPSYS-SENS (Promotion in the company)
June 2023- present
- Board design.
- analog and digital circuits design.
- Realization of logical functions.
- Knowledge and use of many components for the design- Passive components, LDO, digital drivers, SERDES, clock, comparators, oscillators, opto-couplers (for optical isolation), amplifiers, logical components, I2C components, etc.
- CAD- OrCAD, PCB Editor etc.

DESIGN VERIFICATION ENGINEER — OPSYS-SENS (Promotion in the company)
January 2023 - June 2023
- Circuits debugging using test equipment.
- POD and signals measurements.
- Troubleshooting of failures in circuits and systems.

TESTING, INTEGRATION AND VALIDATION ENGINEER — OPSYS-SENS (Promotion in the company)
January 2022 - January 2023
- RF testing and calculation- SNR, Spurious, Harmonics, 1dB comp. point, S parameters, OIP3, etc.
- Optical modulated signals testing and measurements (RF over fiber).
- Automation tools development for the laboratory using python (GUI for RF/optical testing, I2C implementation, etc.).
- Extensive experience with RF and optical test equipment- Oscilloscope, Spectrum Analyzer, Network Analyzer, Signal Generator, Function Generator, RF and Optical Switches, DCA, Optical Spectrum Analyzer, Fluke, Wavelength Meter, etc.
- POD of new optical modules and electronic circuits.
- Electrical debugging.
- Testing by ATR.

TESTING ENGINEERING TECHNICIAN- STUDENT POSITION- OPSYS-SENS
January 2021 - January 2022

EDUCATION

B.Sc. IN ELECTRICAL AND ELECTRONICS ENGINEERING
— Holon Institute of Technology
Expected graduation- October 2023
Average grade- 93

SKILLS

- Hardware, RF and optical testing and measurements, analog and digital circuits, automation development using python (communication with test equipment), multidisciplinary system integration, optical systems, etc.

MILITARY SERVICE- MARCH 2014- MARCH 2017

- Combat soldier in the combat Engineering corps.

LANGUAGES

- **Hebrew**
  Native

- **English**
  Good