‍‍Matania Rosenzveig - DSP/RT Engineer

30.03.84 | Givat Shmuel | 050-4265398 | mataniar@gmail.com

Work Experience

**2017 – Today: DSP Software Engineer | Altair semiconductor – Sony company**

* Take part in a team that develop a special core unit for neural networks processing.
* Write drivers to implement all the different layer of CNN's that run on this core . (write on Mason – special language)
* Write tests to the drivers on simulator to achieve Bit Accurate results with hardware. (write on Java)
* Integration with algorithm team and hardware team.

**2014 – 2017: DSP Software Engineer | ROD - radar obstacle detection**

* Implementing algorithms in MATLAB and then in REAL-TIME environment.
* Embedded Programing on different types of Cores: ANALOG DEVICES – SHARC sc589, TI- TMS320C6678, MSP430.
* Writing drivers for several devices (PLL, IMU, Flash memory, ADC, DDS).
* Using FFT ,FIR and IIR accelerators in the DSP core for implementing of **Signal Processing** algorithm.
* Communication protocols: SPI, I2C, TCP-IP.

2012-2014: Embedded Engineer | Aerotech

* Programming and control of micro-controllers (PIC, ARM) using C for embedded systems
* Control on Temperature sensor, Power-Supply, Electronic-Load, and another device for control on charge and discharge of energy power –bank for special military instruments.

Skills and Abilities

* A passion for new challenges and creating solutions with a positive attitude to change.
* Excellent communication skills and team player with leading capabilities.
* ability to work with multi-tasking and dynamic environments.
* Creative, open to absorb and share knowledge and ideas.Education

B.S.C of Electrical Engineering | Lev institute | 2009 – 2012

Technical Proficiencies

* Eclipse – C/C++.
* MATLAB.
* Real-Time OS: micrium, RTOS, SYS\_BIOS.
* Network analyzer, spectrum analyzer, oscilloscope, function generator

**Military**

Served as a fighter in the paratroopers, 202 unit.