Ohad Ram – RT\Embedded Engineer

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Summery

- I'm a professional electrical engineer with expertise in **RT/Embedded C** programming and proficiency in **Python** and **C#**.
- I believe that my experience in writing software while developing interfaces with electronics has given me a multidisciplinary perspective.
- Excellent capacity to investigate problems and independently arrive at a solution.

Experience

2022 – 2024: **High Sec Labs** — *Engineer (Real Time/Embedded Programmer)*
- Working on **HDMI/DP** secure video card on the **STM32 ARM**.
- Working on **ICT Tester** on the **STM32 ARM**.
- Writing **Low Level Firmware** drivers to components and implement algorithms in **C**.
- Updated and Improved products by adding **High Level Software** in **C** with strong understanding of the **Boards electronic**.

2022 – **Laser Tag gun prototype**
- The goal of this project was to create a gun that has communications abilities with older guns that are obsolete.
- I replicated the **IR** signal produced by the old gun.
- I have created electronic circuits to support the required capabilities.
- I have created the **Firmware** on the **STM32 ARM** while using a number of sensors and various communication protocols.

2012 – 2022: **Multiple Schools** — *Teacher*
- Mathematics, Electronics, Computer & Robotics.

2012 – 2011: **Elbit – Kinetics** — *Engineer (Real Time/Embedded Programmer)*
- Working on high power generators.
- Writing low level **Firmware** drivers to sensors and implement algorithms.
- Updated products by adding high level software in **C**.

2009 – 2007: **Visonic** — *Programmer (Motion Detection)*
- Working on motion detectors for security system (Indoor/Outdoor).
- Writing low level drivers **Firmware** as: A2D, Timers, Interrupts etc.
- Implementation of complicated Signal Processing algorithms in High Level.

2006 – 2005: **Adcom** — *Programmer*
- Writing low level **Firmware** to various Microprocessors using **C**.
- Implementation of protocols – RS232, SPI, I2C, USB (Host & Client Side).
- Writing High level Software.
- Hardware card integration.

2005 – 2004: **Refael** — *Digital Board Design Engineer*
- Hardware Card design.
- Prototype production
- Integration testing.

Skills

Programming:
Python, C++, C, App Inventor, Assembler, C#, JavaScript.

RT/Embedded:
STM32-ARM Cortex-Mo with Free RTOS, NXP, Microchip (PIC16/18/24), Atmel, Cypress (KEIL), Freescale (Code warrior).

Software:
NI Simulation, Orcad, KALI Linux.

Electricity: *Siemens PLC*

Personal:
- Autodidact,
- Expert in solving problems,
- Focus On the Goal.

Education

Ben Gurion University — *BSc in Electrical Engineering* 2002 – 1997

Kernelios — *CHCSS Cyber Security Specialist* 2022

Ariel University — Water Technology 2010

Language
Hebrew – Mother Tongue
English – Excellent.