Curriculum Vitae

Surname: Ivanoff
Name: Anton
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<u>EDUCATION</u>

1. Secondary school in Sofia 1968 – 70
2. 2. Technical University as a MS of Computer Science 1972 – 1977
3. pH. D graduated degree of Computer Science 1980-83

<u>Professional Practice</u>
1.From 2018 to 2023 as a software engineer in LEM Bulgaria

1. Lab applications with Nucleo-stm32L072 including Temperature Sensor control,

2. Lab applications with Nucleo-STM32F411RE including DC motor control, Multi DC motor control,

3. Software modification of tester application for product family HAIS – released by LAB/Windows CVI,

4. Software modification of tester application for product family HXS– released by LAB/Windows CVI,

5. Software modification of tester application for product family HASS/HTFS– released by LAB/Windows CVI,

6. Software development of tester application for product family ART/ARH– released by LAB View,

7. Software development of tester application for final testing of product families ART/ARH– released by LAB/Windows CVI,

8. Software development of tester application for final testing of product families HIP– released by LAB View and Test Stand;

2.From 2015 as a freelancer in Upwork

1. Smart Meter with disaggregation analysis including:

   - Hardware design with pic32MX795F512H and STM34 electric sensor IC;
   - Firmware design of API in Harmony software environment;

2. Double DC brushed motor controller including:

   - Hardware design with STM32F072;

- Firmware design in the Cube software environment using Hal and LL libraries;

3.From 1997 to 2015 as a design and test engineer in Curtis/Balkan Ltd. (US high technology company in Bulgaria) in Sofia.

1. Design of IC tester for DC Induction motors – software (CVI – NI) and firmware(C and assembler) for PIC16Fxx(microcontrollers.

2. Design of IC tester for AC Induction motors – software(CVI – NI) and firmware for Infineon C164 CI microcontrollers.

3.Hardware/Software design of DC controller on the base of Microchip dsPIC3364mc206.

4.Hardware/Software Design of series of functional testers for DC/AC motion controllers on the base of ARM Cortex_M0 platform – LPC 1114/301 microcontroller. Experience with CoIDE, MTK4 and IAR Embedded Workbench;

5.Creation of application software for statistical and monitor control(C#,C++).

6. Building a test system for final testing of IC gages

7.Designing and implementation of a service Tester for Sepex Speed Controllers, use CVI, Lab View and Test Stand.

8.Designing and implementation of an Automatic TestSystem for wide class of IC gages using LabWindow CVI Package.

9.S/H designing of four quadrants motion controller for DC motor based on SCR semiconductors and Atmel's RISK microcontrollers from family AT90S4434/8535. Programming in Assembler and C for this family. PCB layout designing with OrCad 9.0. Simulating with Pspice/Express 9.1

10.S/H designing of double motor controller for electrical vehicles based on Philips microcontroller 87c553. Programming in Assembler and C for this family. Implementing SMD technology. PCB designing with OrCad 7.0.
12. S/H designing of product line of Combymeter for Diesel and Electric vehicles based on PIC 16c74/77, microcontrollers. Programming in Assembler and C for these micros.

11. From 1986 to 1998 as a product designer in Institute of Computer Science in Bulgarian Academy of Sciences.

12. Research & Development(R&D) of "Direction finder" system for Bulgarian Airspace controller's department. Communication controller between peleng station and radar indication system.

13. R&D of family of communication controllers for Profibus protocol. Programming in Assembler and C for Intel 8051.

14. R&D of first Bulgarian personal computer XT-8088 standard. Assembler programming skills with 8086 family.

15. From 1977 to 1986 as a product designer in Institute of Disk Drive technology in Sofia.
Participation in all Bulgarian projects connected with Disk Drive development program.

Experience and Skills

1. Hardware designing more than 20 years experience with microcontroller's families:

   - STM32L0xx,STM32f103xx, STM32F4xx, STM32f767xx

   - PIC 16c54/84/74/77/17c42, dsPIC33EP64mc206, pic32MX795F512H,

   - Arm-Cortex0 LPC 1114,

   - Atmel 90S8535,

   - Philips 875534,

   - Infineon 167/164,

   - Intel 8051/8088/80251,

   - Motorola 68hc11/05/08,

   Analog and digital design experience with CAN,SPI,I2C,UART,DAC, ADC.
   Good experience with DC motor control.

2. CAD skills – OrCad, Altium Designer.

3. Software experience – programming in Assembler and C version for wide rate of micros.

4. Programming skills and good practice for LabWindows CVI of National Instruments.

5. Programming skills and good practice with Microsoft C++ 2008 and C# 2008

Additional Skills

Experience with Adobe Photoshop and QuarkXpress

Hobby and Sports

Literature and music
Tennis, soccer, ski

Languages

English – well
Russian - well