

Pablo Slavkin

Currículum Vitae

Piedras 689, Bariloche

Río Negro, Argentina

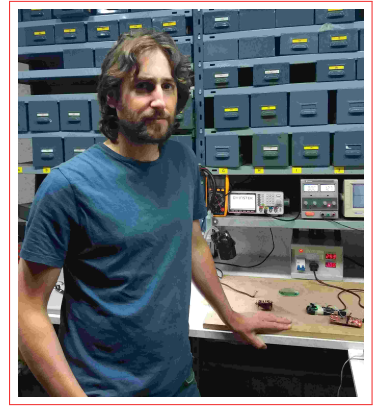
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📄 [Online CV](#)



"En las herramientas, como en los instrumentos, lo que importa es el artista"

Presentation

I am an electronic engineer from School of Engineering and Technology ITBA, recently received as Specialist in Embedded Systems and studying a Master in Embedded Systems from University of Buenos Aires, UBA.

I developed my career working in the area of product development of several national companies and in the area of research in state institutions.

I was in charge of an electronic engineering studio offering electronic design and production services and I am currently working as a freelance electronic developer with the possibility of issuing 'A' and 'B' invoices.

I work daily designing embedded electronic equipment executing tasks such as:

- Taking requirements and planning acceptance tests of hard and soft.
- Schematic design, PCB, simulations, assembly, 3D modeling and machining.
- Coding for real time in C / C ++ in bare metal or on RTOS.
- Codification and execution of the unit tests and management of continuous integration tools.
- Assembly and start-up of prototypes and documentation for the assembly line.

I am very pragmatic, committed and enjoy solving complex problems in a creative way by exchanging ideas with my peers I prefer down-top developments using agile concepts to keep the product functional from the beginning.

I have an electronics workshop with tools such as:

- Assembly line of SMD and TH plates, pasta stencil, pick and place, reflow oven and wave soldering machine.
- Reworking and manual welding tools.
- Stock of SMD and TH materials of current and specific use.
- CNC machining center.
- Machine for cutting and laser engraving.
- Several machines for 3D printing.
- Generators, Oscilloscopes and Advanced Instrumentation for measurement and diagnosis.
- Electronic tools for firmware development.

These tools, my experience, technical ability and frequent academic updating allow me to unwrap in most instances of the development of a professional embedded electronic equipment.

Education

2018–2018 **Specialization in Embedded Systems** , FIUBA - University of Engineering of Buenos Aires , Buenos Aires , Average 9.33 .

2007–2016 **Doctorate in Engineering** , UTN - National Technological University FRBA , Buenos Aires , Average 10 on 3 approved subjects + 3 late due .

Mention Digital processing of images and signals. Suspended by moving to another city.

- 1996–2005 **Electronic Engineering** , *ITBA - Technological Institute of Buenos Aires* , Buenos Aires , *Average 6.5* .
- 1990–1995 **Electro Mechanical Technician** , *ENET Nº1 Brigadier General Pascual Echagüe* , Concordia, Entre Ríos , *Average 8.5* .
- 1982–1989 **Primary School** , *Velez Sarsfield School* , Concordia, Entre Ríos , *Average 8.5* .

Experience

Professional

- 2019–Present **Freelance Electronic Engineer** , , , .
Personal entrepreneurship Electronic design services, hardware, firmware and electronic equipment.
- 2005–2019 **Director in engineering company** , *disenioconingenio* , , .
Personal entrepreneurship Engineering study that offers electronic design services to companies, with ability to develop and manufacture electronic equipment, hardware, firmware, software, mechanics, PCB routing, assembly of PCB's SMD and TH, 3D printing, CNC machining, laser cutting and engraving and commercialization of equipment for access control RFID, monitoring of ethernet temperature, automation of machines, converters of protocols, etc.
- 2011–2014 **Consultant and developer of electronic equipment** , *Seconsat* , , .
Consulting and development of electronic accessories for the AVL business. see portfolio [ver portfolio](#)
- 2003–2005 **Electronic equipment developer** , *Digicard* , , .
Company referring to the national level in the area of access control. Work was done on the development of an RFID reader of 125khz for the line of access controllers. He participated in all the stages since the request, design, layout, prototype, start-up, firmware, general documentation and for production. At present It is a product actively marketed by the company.
- 2002–2003 **Firmware developer for microcontrollers** , *Pump-Control* , , .
Company dedicated mainly to the design, development and production of electronic controllers for the distribution of hydrocarbons. Work was done in the area of firmware development for 8bit microcontrollers of the Atmel line, implementing communication protocols, access control, dispenser control fuel, etc.

Teaching

- 2017–2017 **Introduction to robotics** , *Siglo XXI* , , .
A day of introduction to robotics was given for students from the third to fifth year, showing the history, basic concepts and culminating with a practice in different commercial platforms
- 2004–2004 **Altera FPGA programming intensive course using Quartus II** , *ITBA* , , .
An introductory course with practical activities was carried out using an Altera evaluation board. [ver material](#)

Research

Scholar in the National Atomic Energy Commission , CNEA,, . I worked as a fellow in the completion of a fully developed PET (Positron Emission Tomography) in the center on which the doctoral thesis plan is developed. Particularly, work is done in the area of acquisition and processing of digital signals on high performance FPGA. The scholarship is terminated move to another city see material 2015 , view material 2016

- 2015–2016 **Scholar in the National Atomic Energy Commission** , *CNEA* , , .
I worked as a fellow in the completion of a fully developed PET (Positron Emission Tomography) in the center on which the doctoral thesis plan is developed. Particularly, work is done in the area of acquisition and processing of digital signals on high performance FPGA. The scholarship is terminated move to another city [ver material 2015](#) , [ver material 2016](#)
- 2009–2009 **Ayudante en el Centro de investigaciones de Láseres y Aplicaciones** , *CITEDEF* , , .
Se trabajó como ayudante del Dr. Jorge Codnia y la Lic. Laura Azcárate en el armado de un condensador de flujos, que con la ayuda de un láser produce isótopos de interés, y los primeros avances en un nuevo espectrómetro de masas de tiempo de vuelo

Cursos y seminarios

- 2017 **LASCAS 2017 Tutorials: Dependable Digital Systems and Fault Tolerant FPGA Design** , INVAP , 8hs , .
- 2017 **SASE 2017, Simposio Argentino de Sistemas Embebidos** , UBA , 8hs , [ver certificado](#) .
- 2016 **SASE 2016, Simposio Argentino de Sistemas Embebidos** , UBA , 8hs , [ver certificado](#) .
- 2015 **Encuentro Doctorado PSI – GIBIO – Modelos, Simulación e Ingeniería de Tejidos** , Favaloro , 8hs , [ver certificado](#) .
- 2015 **SASE 2015, Simposio Argentino de Sistemas Embebidos** , UBA , 6hs , [ver certificado](#) .
- 2015 **Técnicas avanzadas de diseño digital** , UNICEN , 40hs , Curso virtual avanzado de técnicas de diseño digital a cargo del ingeniero Guillermo Jaquenod .
- 2013 **SASE 2013, Simposio Argentino de Sistemas Embebidos** , UBA , 18hs , .
- 2012 **Primeras jornadas de procesamiento de señales e imágenes** , UTN, GIBIO EDE2008 Electronic Design Expo , 8hs , [ver certificado](#) .
- 2012 **SASE 2012, Simposio Argentino de Sistemas Embebidos** , UBA , 18hs , .
- 2011 **SASE 2011, Simposio Argentino de Sistemas Embebidos** , UBA , 18hs , .
- 2010 **SASE 2010, Simposio Argentino de Sistemas Embebidos** , UBA , 18hs , .
- 2008 **Conferencia sobre tecnologías inalámbricas de Digi RF** , EDE2008 Electronic Design Expo , 6hs , [ver certificado](#) .
- 2007 **Curso teórico práctico de serigrafía orientado a la fabricación de PCB's** , 32hs , [ver detalles](#) , .
- 2007 **Seminario de desempeño analógico usando microcontroladores Silabs** , 8hs , [ver detalles](#) , .
- 2006 **Lanzamiento microcontroladores Freescale RS08KA, acelerómetros y sensores** , 8hs , [ver certificado](#) , .
- 2006 **Lanzamiento microcontroladores Freescale Coldfire 32 bits** , 10hs , [ver detalles](#) , .
- 2004 **Microprocesadores Rabbit y Dinamic C** , 24hs , [ver certificado](#) , .
- 2002 **Curso teórico práctico IA “Inteligencia Artificial”** , ITBA , 18hs , [ver certificado](#) .
- 1995 **Curso de radio aficionado con obtención de licencia LU9JGM** , Radio Club Concordia (LU9JJ) , 48hs , [ver detalles](#) .

Premios

- 2002 **Iniciación en I+D ITBA** , 1^{er} Premio , , .
Diseño y Simulación de una Unidad de Punto Flotante con estructura Pipeline Multi-Thread para procesadores de propósitos generales de alta performance [ver mas](#)
- 2001 **Robots de lucha Battle Tek, ITBA “ingenio en acción”** , 3^{er} Puesto , , .
Robot Discotech
Se diseñó y fabricó un robot de lucha basado en un disco giratorio de alta velocidad de rotación con 2 salientes filosas que impactan contra el adversario. [ver mas](#)

Trabajos y publicaciones

- 2018 **Controlador para máquina CNC de 3 ejes** , *Especialización en sistemas embebidos, FIUBA* , , .
Trabajo final de la carrera de especialización en sistemas embebidos, Director: Ing. Juan Manuel Cruz [ver trabajo](#)
- 2010 **Suavizado de imágenes por difusión inhomogénea** , *Procesamiento de imágenes Biomédicas, UTN* , , .
Trabajo final Procesamiento de imágenes biomédicas, Tutor: Dr. Castro [ver trabajo](#)
- 2008 **Estudio de técnicas foto térmicas aplicadas a la medición de flujo gaseoso** , *CITEDEF* , , .
Se presentó bajo la tutela Dr. Francisco Manzano y como meta de aprobación de Optoelectrónica II. [ver trabajo](#)
- 2004 **Diseño e implementación de una pantalla dinámica basada en 3200 lámparas de filamento con 16 escalas de grises y 20fps actualizable por ftp** , *LampMatrix, Tesis de grado, ITBA* , , .
Bajo la tutela del Profesor Villamil, se diseñó y fabricó íntegramente una pantalla publicitaria basada en lamparas de filamento. [ver video](#) , [ver trabajo](#) .

2003 **Design and Simulation of a pipeline-structured Floating Point Unit for high performance general purpose processors** , *JAIIO 32^{as} Jornadas Argentinas de Informática e Investigación Operativa* , , ,
[ver trabajo](#)

2003 **Selección del número de etapas óptimas en unidades de punto flotante con estructura pipeline** , *CACIC, Congreso argentino de ciencias de la computación* , , ,
[ver trabajo](#)

ectionDominio de tecnologías

Sistemas Operativos

Avanzado Linux (Debian, Crunchbang, Bunsenlabs, Ubuntu, Slackware), FreeRTOS, Windows(XP, Seven, Server2003, Office2000)

Intermedio FreeBSD

Básico OSEK

Programas de computadora destacados

Avanzado cryptsetup, vim, mutt, git, mercurial, gnumeric, ssh, bash, screen, tmux, pass, Allegro PCB Router, Slic3r, Pronterface, Mach3, LinuxCNC, Rhinoceros, RhinoCam, Orcad16 (Design CIS,Layout,Pspice), Flash MX, Borland C++ Builder, Octave, Wireshark, gcc, Xilinx (ISE y Vivado), Microsoft Visual Studio, VirtualBox, gdb, openocd, redmine, cups, Swat, Samba, Cura, Freecad, ceedling, gnuplot, ncurses, cdk, Kicad, L^AT_EX, gtwave, icarus, ghdl

Intermedio OpenOffice, LibreOffice, Eclipse, Matlab, Mathcad, quemu, Arduino, svn, ffmpeg, Openscam, Webadmin, SonarQube

Básico Quartus II, Delphi, Blender

Lenguajes de programación

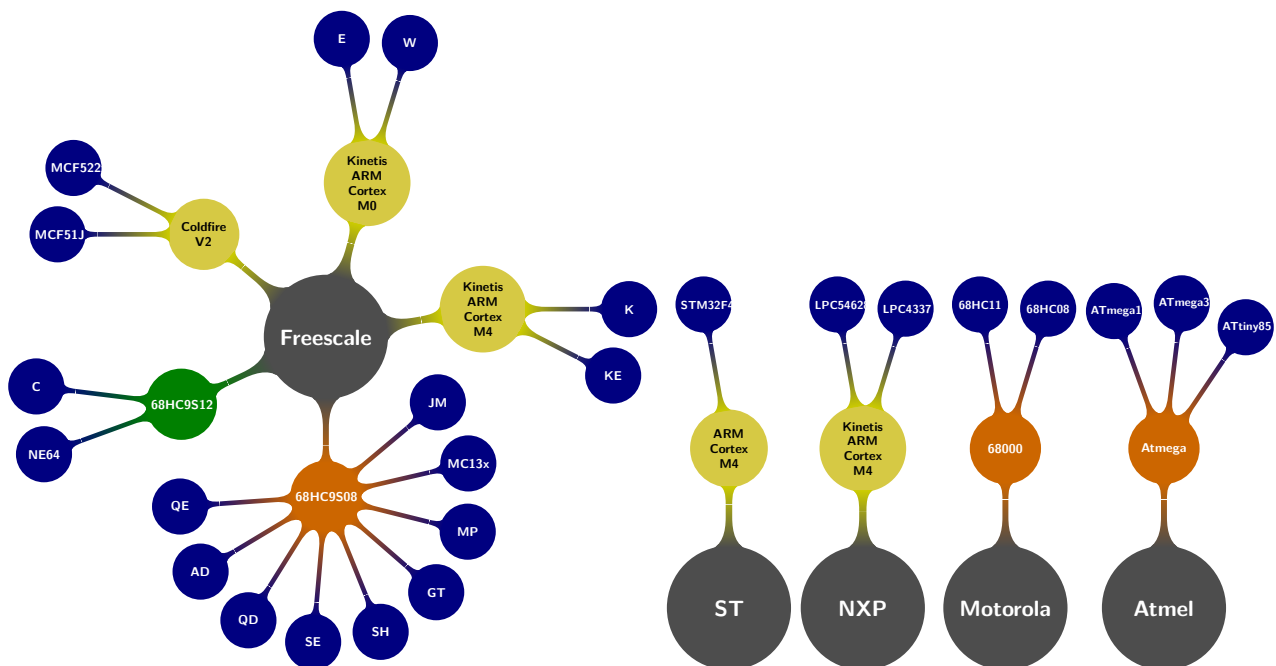
Avanzado C, Octave, Verilog, assembler, VHDL

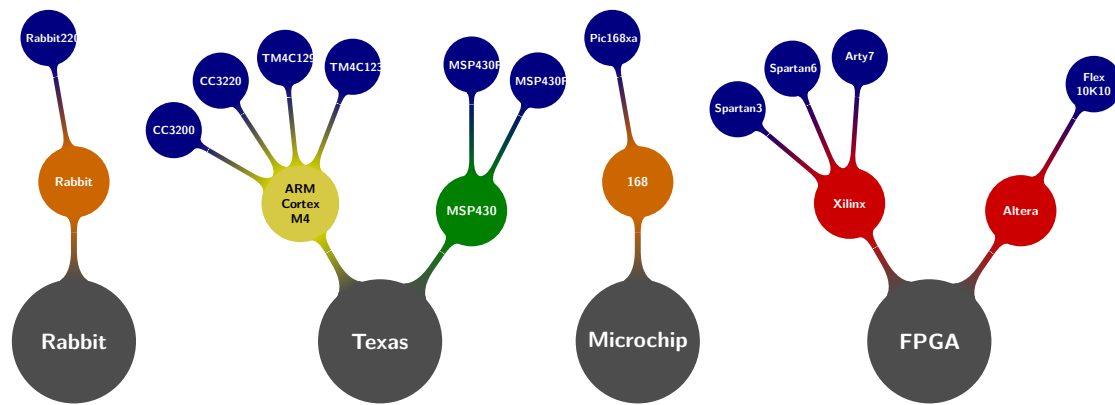
Intermedio C++, C#, Pascal, bash, makefiles, openHab, Microsoft Visual Studio, Python

Básico Java, Javascript, HTML

Experiencia con los siguientes Microcontroladores, microprocesadores y FPGA

Colores 8 bits ● 16 bits ● 32 bits ● Fpga ●





Protocolos de comunicaciones y técnicas digitales

Avanzado	Ethernet, TCP, IPv4, SNMP, SMTP, NTP, ARP, UDP, SCI, SPI, I2C, LVDS, USB FS/HS, Zigbee, RFID, PWM, ADC, DAC, 1-Wire, RS232, RS485, PoE+
Intermedio	IPv6, CAN, 6LoWPAN, IEEE 802.15.4, lwIP, I2S, Radius, Modbus
Básico	HTTP, Lora, MIPI

Otras tecnologías de Interés

Avanzado	Manejo de línea de montaje SMD, Soldado de PCB's manual por horno y ola, Impresión 3D FDM, serigrafía sobre rígido, serigrafía de PCB's, mecanizado CNC, Manejo de maquina de corte laser, manejo de máquinas herramientas
Intermedio	Manufactura de PCB's, soldadura por arco, torneria metalica
Básico	

Idiomas

Español	Oral/Lectura/Escritura Avanzado	Lengua nativa
Inglés	Oral/Lectura/Escritura Intermedio	TOEIC 2005–785 ver certificado
Hebreo	Lectura Intermedio, Escritura/Oral Básico	Escuela primaria hebrea completa

Deportes y actividades recreativas

2016–2017	Basquet , Bariloche , Club Deportivo Nahuel , facebook . Entrenamiento en el plantel de primera división del club
1983–1994	Basquet , Concordia , J.N.Bialik , . Entrenamiento desde categoría mosquito hasta formar parte del plantel de primera division.
1995–2004	Basquet , Buenos Aires , Basquet Universitario , ITBA . Entrenamiento en el plantel universitario durante toda la carrera.
1994–Presente	Ciclismo , , , . Competición en categoría cross country sub-23, competencia en categoría trialbike sub 30, ciclismo amateur al presente
2014–Presente	Guitarra , , , . Aprendizaje amateur de guitarra eléctrica y música.

Otras actividades e intereses

- Física
- Astronomía
- Motociclismo
- Historia de la ciencia
- Filosofía
- Ciclismo