

# Fernando Aló

ELECTRONIC ENGINEER



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Profile: Electronic Engineer (UTN-FRBA). More than 10 years of experience in hardware design and software development for embedded systems.

## Experience

2020-Present

### IOT ENGINEER, Sr

Globant.com / C.A.B.A.

Senior IoT Engineer with expertise in firmware development for embedded systems. Highly experienced in embedded Linux and low-level programming in C and C++, with proficiency in both x86 and ARM architectures. Skilled in automating tasks through Bash scripting. Proficient in utilizing Git and SVN for version control. Knowledgeable in messaging protocols such as ZMQ, MQTT, etc.



2018-Present

### DEVELOPER ENGINEER

Freelance (autonomo) / C.A.B.A.

Development of embedded systems, printed circuits boards, firmware development, PCB manufacturing management, turnkey solutions etc. With work done for companies such as, YPF, SmartLedge, Eletek, GCBA, etc.

2019-2021

### ADJUNCT PROFESSOR

UTN.BA / C.A.B.A.

**Sistemas de Representación:** Basic guidelines for circuit design, schematics, layout, panelization, manufacturing process, IPC Standards, etc. (Kicad).  
3D design applied to electronics and case design (OnShape).



2017-2020

### RESEARCH AND DEVELOPMENT

DPLab – UTN.BA / C.A.B.A.

Processing Laboratory of the Department of Electronic Engineering UTN.BA. PCB designer. Embedded Linux, SASE 2017 dissertations. Designing and developing schematic and printed circuit boards for the university's research and development equipment.



2010-2011  
2019-2020

### ASSISTANT PROFESSOR

UTN.BA / C.A.B.A.

**Informática I:** (Advanced programming in C language). Delivered lectures on flow control, arrays, pointers, dynamic memory, recursion, bit operators, TCP/UDP sockets, fork, threads, etc. Provided exercises and feedback. Created an interactive learning environment. Developed curriculum enhancements. Collaborated on assessments.



2018

### CONSULTING ENGINEER

Subsec. de Tránsito y Transporte GCBA / C.A.B.A.

Hired as a Senior Embedded Systems Engineer Consultant specializing in public passenger transportation vehicles, advising and consulting for the Subsecretariat of Traffic and Transportation.



2011-2016

### DEVELOPER ENGINEER

Goodwell Soft Argentina (efisat.net) / C.A.B.A.

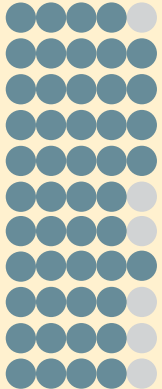
Microcontroller programming, specializing in ARM Cortex-M3 and Cortex-M4 families, Atmel and Freescale. Experience in public transportation vehicle electronics. Proficient in CAN/J1939, ISO 9141-2 networks, etc. Familiarity with Telit/Motorola and Quectel cellular modules. Knowledge of Sanav, Quectel, Telit, and other GPS modules.



## Knowledge

### PROFESIONAL

µC Cortex-M3/Cortex-M4  
Embedded Linux  
Altium Designer  
Kicad  
C  
C++  
Makefile  
Bash Scripting  
Git/SVN  
PCB assembly process  
OnShape (3D Design)



### GENERAL

SCRUM  
L<sup>A</sup>T<sub>E</sub>X  
Doxygen/Markdown  
English  
Microsoft Office



### OTHERS

Departmental Counselor UTN (2016-2021)  
Driver's license

## Education

### ELECTRONIC ENGINEERING DEGREE

Universidad Tecnológica Nacional  
Facultad Regional Buenos Aires  
2007 – 2018

## Others

### SEMINAR / COURSES

English CEFR B2 | GoFluent 2023 -> [cert](#)  
C++ CPA | CPP Institute 2021 -> [cert](#)  
SCRUM Master | Dogma Solutions 2020 -> [cert](#)  
Int. to PCB Design UTN 2016

### OWN LABORATORY

Oscilloscope | Signal Generator  
Lab Power Supply | Multimeters  
USB Microscope | 3D Printer  
Solder Station with hot air

### DISPOSER S.A.S.E. 2017

- Linux Programming I y II  
- Parallel programming