

David Adrián Ochoa

Mechatronics Engineer

I had always loved computers, electronics and anything related to it, so my passion has always been to become a programmer, at the moment I had used my skills most of the time by creating scripts to ease my jobs, however I would like to become part of a team to develop amazing projects. I am ready for my next challenge.

Personal Info

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Languages

- English: TOEFL PBT (583).
- English: TOEIC (920).
- Basic Portuguese.

Principal Courses

- Bootstrap 5 & SASS
- Adobe Photoshop Ultimate Guide
- Learn how to code for Freelancers - HTML y CSS
- Learn how to code for Freelancers - JavaScript
- Complete Bootstrap & React Bootcamp with Hands-On Projects
- Git: Become an Expert in Git & GitHub
- The HTML And CSS Bootcamp
- Web Design for Web Developers

Tools

- HTML
- CSS
- Bootstrap
- JavaScript
- Git
- GitHub
- Markdown
- Python
- Latex
- Sass
- Linux
- Photoshop

Experience

2022-01 to 2023-01

XTAC Technical Support Engineer

Nexius

I was working as XTAC support engineer. I had to clear the alarms from sites, could be new sites or sites that needed upgrades, these upgrades included adding antennas to improve capacity, which required scripting to configure the new radios/antennas so they could work, also the scope included to fix any issue related to fibers or interference.

Once the site was alarm free, the sites would be ready to pass AT&T's audits.

The Troubleshooting included PIM, Fiber losses, radio scripting (2x2 into 4x4),

Hardware checks like SFPs, port expansions, RET scripting, VSWR, External alarm configurations.

I was POC for the Mexican team, so if there was any new information or procedure, I was responsible to be sure all the team was aware of the news.

I created a macro to do the scripting faster and also to avoid any human error, that reduce the scripting time by around 40%, making the Mexican team more efficient

2019-07 to 2021-12

SIM Manager

Voxzi

I worked as a Data Analyst for SMS platform; I was responsible for the delivery and quality of the SMS messages.

Constant communication with the internal customer was key to know if the messages were delivered as they should, and, in case there were any issues, check the root-cause finding patterns that the issues showed and then fix them.

Communication with the NOC was imperative, this, to ensure we had enough Hardware and Software resources, since they were assigned and reassigned depending on the amount of traffic for each customer/region needed at the time because it was a dynamic system.

I created a program which help to do a sweep and by that, inconsistent information was visible and could help to find the cause of the issues, improving the fixing time spent, this improvement was around 13% - 37%.

2016-08 to 2019-06

Senior Design and Programmer Engineer

Telemagiaplus

On the technical side, I helped the customer to "polish and shape" the idea they had, many times they had an overall idea, but most of the times, little details weren't considered, my job was to give the idea as detailed as possible to the

programming team so they could program as accurate as possible and with this, save time and reworks.

On the marketing side, I helped the marketing team by transmitting the strong points of the customers services/products, and by that, they could make stronger campaigns to increase the customers sales. I got a basic understanding of the google and Facebook ads.

2011-10 to 2016-08 **Integration, Optimization Engineer** *Ericsson*

I was team leader of the special events team. This was a group dedicated to cover all the events that had to be handle with extra care, those events gathered thousands of people at the same time like concerts, a marathons, any sports event, etc.

These events had to have a customized configuration so it could handle all the extra traffic and to ensure the best performance possible during the event (around 40k people in average).

2G and LTE refarming project in the TLE & TCO region (Brazil). The idea was to rearrange the spectrum so the operators can maximize the use of it (spectrum) and in this case, use 2G for rural areas (where voice calls were needed more than data) and LTE for urban areas where faster connectivity was needed (including data).

Modernization projects which the goal was to upgrade Hardware, by swapping old equipment into new ones which were smaller, with higher capacity and used less resources.

These projects also included new sites that were being built at the moment. Some of them involved BSS sharing which consisted of doing the integration of a site with many different vendors, in this case Orange, Vodafone and Telefonica all in the same node.

On this project I was team leader for the Orange and Yoigo vendors, here I implemented WOW to reduce delivery times and also to avoid any human mistakes, I did this by implementing procedures and standardizing them, as well as its proper documentation for new personnel who joined the project

On the optimization project. I was responsible for the Upstate NY area, and I had to look after the network before the commercial launch was done, had to check that complete areas were always with good coverage and good KPIs. This was done by checking logs of a drive route that I gave the testers and then just look for any issues like drop calls, noise, interference or any RF issue, if so, fix it by changing logical parameters like power or electrical tilt or to escalate it to the corresponding department.

The project was a 3G rehome, consisted of moving sites (logically) from one Source RNC into the Target RNC, this, because sometimes upgrades were needed in the Source RNC, sometimes they took out of service (RNCs) or simply

just to do network balancing. The project was nationwide including all the markets (east, central and west).

Worked for TMobile, doing upgrades, adding radios or antennas such as DUW or RUS, this, to improve the nodeBs capacities and performance.

The Installation of licenses to unlock all the features. Transport configuration as hybrid (ATM and & IP), this in order to update the network and prepared it for a later conversion to full IP.

2G integrations creating ATM configurations on the nodes, which involved the calculation of the E1 required and timeslots per carrier plus the configuration in each cabinet.

2009-06 to 2010-06 **Electronic Equipment Designer** *Colegio de Postgraduados*

I was hired to design and create equipment's that could help to do environmental research for the center, this because there was not a big budget. The idea was to custom made the devices that they needed to get the information they required to do their research.

I was designated to design:

- A remote system to operate digital cameras.
- I helped with the design of a new custom-made data logger, this device saved all the data collected by implemented sensors which included temperature, humidity, light, among others.
- Also, I collaborated with the ESIME Ticoman school to design an aerial prototype, capable of doing autonomous flights with all type of measuring equipment that used the previous equipment described to get readings from the flights.

Education

Unidad Profesional Interdisciplinaria en Ingeniería y Tecnologías Avanzadas (IPN – UPIITA)
Bachelor of Engineering (BE) on Robotics & Mechatronics.

Certifications

- **Yellow Belt Lean Six Sigma**
- **Internal Ericsson JS5 certification**