Luis Omar Ortiz Abrego

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Telecommunications engineer with experience in mobile communications research, business intelligence and data engineering.
Fields of interest: Wireless communications, machine learning, software development & data analysis.

Experience

Student Research Assistant / Fraunhofer HHI, Berlin Germany. March 2019 - Present

• Research and development of simulations to explore new features for the point to point communications with LDPC code scheme systems.
• Design and development of a python based side-link simulator for V2X (Vehicle to Everything) communications in line with the 3GPP technical requirements for research purposes.
• Work on the development of a C++ based link level simulator for 5G mobile communications with the 3GPP technical specifications, particularly in the OFDM modulator (Bachelor thesis).

EPM - BI Consultant / Quick Hit Solutions, Mexico City, Mexico. August 2017 – April 2022

• Consultant for Enterprise Performance Management and BI Practice, working with the Oracle EPM solutions on cloud. Understanding of business requirements in order to design and program rules to do some operations with information cubes for different company's projects (AON, Smart Fit, Sports World).

Internship / Gentera , Mexico City, Mexico Summer 2017

• Summer internship project with the COE BI & Analytics department of a bank company in México. "Automatization for the cross-selling matrixes" was a project to develop an algorithm for automatizing a prototype of reports for the strategic department and other managers.

Education

MS Scientific Computing / Technische Universität Berlin.

Currently enrolled, expected graduation date Winter Semester 2023-2024.

BCs Telecommunications Engineering / Instituto Tecnológico Autónomo de México, México.

GPA 8,4 /10 – Graduated in February 2020 with the thesis "Design and implementation of a 5G NR link level simulator".

Computer Science / Technische Hochschule Köln, Germany.

Semester abroad – Courses: Data Mining, Business Intelligence, Operations Research, Internet of Things.

High School - Technician Diploma / Instituto Politécnico Nacional, México.

GPA 9,3/10 – High School diploma with a specialization in Aeronautics.

Skills

• Programming languages: Python, C++, Matlab, SQL, Java, bash.
• OS: MacOs, Linux/Unix, Windows.

Languages

- Spanish (Native)
- English (C1)
- German (B1)

Awards

- First place at a multidisciplinary project with the TH Köln and the Köln-Zoo in the topic of IoT.
- Academic excellence scholarship at the *Instituto Tecnológico Autónomo de México.*

Volunteer Work

August 2016 - May 2017. PERAJ México as advisor of the "*Peraj Adopta un amigo*" program that works with kids in vulnerable situations to develop their social and individual skills.