Luis Omar Ortiz Abrego

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Linkedin

EDUCATION

TECHNISCHE UNIVERSITAET BERLIN   April 2021 - March 2024
Scientific Computing Master in Science   Berlin, Germany

INSTITUTO TECNOLOGICO AUTONOMO DE MEXICO   August 2013 - December 2019
Telecommunications Engineering Bachelor   Mexico City, Mexico
GPA: 8,4/10

TECHNISCHE HOCHSCHULE KOELN
Computer Science Bachelor   Koeln, Germany

INSTITUTO POLITECNICO NACIONAL   August 2010 - May 2013
Aeronautics High School - Technical Diploma   Mexico City, Mexico
GPA: 9,3 / 10

EXPERIENCE

FRAUNHOFER HHI | Student Research Assistant   Berlin, Germany | March 2019 – Present

Currently working with a C++- based module within the Ns-3 simulator with the goal of optimising the scheduling processes for Cellular V2X Communications Mode 4.

Designed and developed a Python-based side-link simulator for V2X communications, aligning with 3GPP technical standards to support research initiatives.

Development C++-based link-level simulator for 5G mobile communications, with a primary focus on the OFDM modulator, as the subject of my Bachelor's thesis, adhering to 3GPP technical specifications, with simulations over different test scenarios.

QUICK HIT SOLUTIONS | EPM - BI Consultant Mexico City, Mexico - Remote | August 2017 – April 2022

As a consultant in the Enterprise Performance Management and Business Intelligence Practice, I collaborated with Oracle EPM solutions on cloud platforms. I analysed business requirements directly with the users to architect and developed rules for performing operations on data cubes for various corporate projects, including those for
AON, Smart Fit, Sports World, etc.

GENTERA (COMPARTAMOS BANCO) | Internship   Mexico City, Mexico | June 2017 – August 2017

Summer internship project with a Mexican bank's COE BI & Analytics department, where I developed an algorithm for automating strategic reports.

SKILLS

Programming Languages	Python, C++, Java, Matlab, bash
Tools / Platforms	Docker, git
Databases	SQL

HONORS & AWARDS

- First place at a multidisciplinary project with the TH Kln and the Kln-Zoo in the topic of IoT.
- Academic excellence scholarship at the Instituto Tecnolgico Autnomo de Mxico.