BRENO LEVI CORREA

Engineer working in global team delivering cellular devices, analyzing field and laboratory results, debugging and creating software to evaluate performance in telecommunication systems

Breno L. Correa

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LANGUAGES

Portuguese	Native
English:	Fluent
•TOEFL iBT	113/120 – C1
French:	Fluent
•TFI	930/990 – C1
Spanish	Advanced

SOFTWARE

LANGUAGES
Python, C, C++, Java, JavaScript, SQL, Assembly, VHDL, Shell

PROGRAMS
Wireshark, QXDM, QCAT, ELT, MATLAB, Mathematica, SolidWorks, Android Studio, PostgreSQL, Simulink, Amesim, Xcode

OTHER
Git, Gerrit, Jira, Office, LaTeX, AOSP

DISTINCTIONS

2021	Partner Award (Motorola)
2019	Motorola Hackathon (3rd Best)
2017	Eiffel Excellence Scholarship
2014	PICME Scholarship (CNPq)
2012	6th IOAA – Bronze
2012	OBMEP – Gold
2012	OBA – Gold

PATENT

US 11,308,923 B2 - "Electronic device with face orienting user interface". Motorola Mobility LLC, assignee. Issued Apr 19, 2022.

EXPERIENCES

MOTOROLA MOBILITY | STAFF ENGINEER
May 2022 – present | Jaguariúna, Brazil
Network team: Global Product Delivery
- Mobile technologies: 5G NR, LTE, UMTS, GSM, IMS, VoLTE/VoWiFi.
- Software: embedded Android, AOSP, Python automation tools, CI/CD.

INSTITUTO ELDORADO | SOFTWARE ANALYST
Jun. 2019 – May 2022 | Campinas, Brazil
- Troubleshooting network and UE issues: 5G NR, LTE, IMS, UMTS, GSM, CDMA.
- Analysis of application and baseband logs (mostly Qualcomm and MTK chipsets).
- Reviewing and analyzing multiple tests, according to the 3GPP technical specifications, or carrier/country specific validations. Identifying RF, modem, kernel, framework, tester, and many other issues from the logs' in-depth analysis
- Technical support for product managers, for meetings with chipset vendors, and for carrier certification processes; handling and integrating product configurations
- Hands-on lab experience with wireless test platforms for call flow debugging, RF issues, attach procedures and configuration failures: Keysight UXM (5G), and R&S CMW500. Building and testing software for these devices in every engineering validation stage (EVT, DVT, PVT)
- Bring-up, development and integration of complex low level interface to collect information related to 5G performance (ENDC combos, MCG/SCG failures) from developer and eventually final customers, obtaining valuable 5G KPIs from hundreds of thousands of devices.

MOTOROLA MOBILITY | R&D INTERN
Jul. 2018 – Jun. 2019 | Jaguariúna, Brazil
Product Integration team
- Creation, development and maintenance of multiple tools to analyze device performance within cellular networks (5G NR, LTE, UMTS, GSM, CDMA), using Qualcomm tools such as QCAT and QXDM.
- Analysis of modem logs (baseband level) to debug various issues.

STERBLUE | ENGINEERING INTERN
Apr. 2017 – Aug. 2017 | Nantes, France
Development of an automated, connected drone station
- Definition of control process, components sourcing, implementation of the automation system, design and sythesis of absolute encoder, tests

EDUCATION

ÉCOLE CENTRALE DE NANTES | MASTER'S DEGREE
Sep. 2015 – Aug. 2017 | Nantes, France
- Master's degree in a double graduation program: generalist engineering
- Excellence scholarship offered by French Ministry of Foreign Affairs
- "Embedded systems and power grids" as curricular option

UNIVERSITY OF CAMPINAS | BACHELOR'S DEGREE
Mar. 2013 – Aug. 2019 | Campinas, Brazil
- Bachelor's degree in Electrical Engineering; 1st decile performance
- Energy, electronics, computing, control, automation and telecommunication

UNIVERSITY OF BEIHANG | SUMMER COURSE
Jul. 2016 | Beijing, China
- Corporate finance and International business law