

# Carrillo Melgarejo Dick

Senior Staff Standardization Specialist - 3GPP RAN1 delegate

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## Degrees

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| <b>Doctor of Science (D.Sc.)</b> , LUT School of Energy Systems, LUT University, Finland         | 2023 |
| <b>Master of Science (M.Sc.)</b> , Dep. of Electrical Engineer, PUC-Rio, Brazil                  | 2008 |
| <b>Bachelor of Science (B.Sc.)</b> , Dep. of Electrical and Electronics Engineering, UNMSM, Perú | 2004 |

## Current Employment

**Senior Staff Standardization Specialist**, Nokia Solutions and Networks, Espoo, Finland 2022–current

- Representing the company in 3GPP meetings for Rel. 20 Study Item (6GR, focusing on MIMO - PDSCH/PUSCH DMRS overhead reduction).
- Representing the company in 3GPP meetings for Rel. 19 Work Item (5G-Advanced technology), focusing on cellular positioning enabled by AI/ML.
- Representing the company in 3GPP meetings for Rel. 18 Study Item (5G-Advanced technology), focusing on AI/ML applications in cellular network air interface.

## Previous Work Experience

**Researcher and Consultant**, LUT University, Lappeenranta, Finland 2018–2022

- System-level definition and requirements of cellular networks used on projects enabling connectivity to power system use cases.
- Management of the drive-test of an industrial 5G Network supporting power system protocols as IEC-61850.
- Academic research in 6G technologies.

**Senior Wireless Systems Engineer**, CPqD, Campinas, Brazil 2010–2018

- Development of a customized LTE base station and CPE to operate on 250 MHz and 450 MHz, following 3GPP standardization requirements.
- Responsible for the System-level integration of L1/L2 software.
- system-level coordination between research development teams.

**Wireless Communication Systems Researcher**, Nokia Institute of Technology, Brazil 2008–2010

- Development of a system-level simulator for WiMax.
- Research on indoor 3D positioning using WiFi fingerprint.

## Management Experience

+5 technical management experiences using Agile or Scrum. Excellent communication skills.

## Other Education and Expertise

+10 complementary training courses on 3GPP Protocols and signals, Radio planning, and AI/ML applications.

## Research Funding and Grants

+5 Academic Projects and +3 Development Projects.

## Research Scientific Contribution and Patents

25+ publications in peer-reviewed conferences and journals. 50+ Patents.

## Awards

+4 Academic and Industrial awards in the field of wireless communication.

## Scientific and Societal Impact

Volunteering in +4 IEEE Technical societies in Finland.

## Computer and laboratory skills

+4 programming languages, +2 AI/ML platforms, +2 Linux distributions, and laboratory devices.

## Languages

Mother tongue: **Spanish**, Fluent: **English**, **Portuguese**