Personal information

First name / Surname	**Alin COSTANDOIU**
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Nationality	Romanian
Date of birth	06.05.1986
Gender	Male
About me	Highly experienced telecommunication engineer with solid 2G, 3G, 4G and 5G knowledge. I find my motivation when working with new technologies in a dynamic environment. Effective social skills, with the ability to clearly and concisely express ideas both verbally and in writing. Very passionate about what I do, enjoying getting to know new characters and learn new strategies. I take pride in the quality of my work and in the enthusiasm that I invest in all my activities.

Work experience

Jan 2022 – present	**Senior IoT Field Application Engineer**
Main activities and responsibilities	• Responsible for multiple product lines (Cellular, Wi-Fi, Bluetooth, Antennas, Sensors, Services and Connectivity) for customers located in DACH, Eastern Europe, Russia, Africa, and Middle East • Customer troubleshooting for 5G NSA/SA feature integration • Troubleshoot DSS, EN-DC cell activation, low throughput and QoS customer issues • Testing of pre-release products for Cellular, Wi-Fi and Bluetooth modules • Evaluation of new 5G M.2 modules and customer demos for high broadband applications • Training of the Sales team for new product releases and new wireless technologies • Joint demos on 5G private networks with open-RAN companies (e.g. Accelleran) • On-site 5G L3 debugging and QoS prioritization
Employer	Richardson RFPD Germany GmbH – Munich, Germany
May 2021 – Nov 2021	**Director Field Application Engineer for EMEA**

Main activities and responsibilities	• Management of a team of Field Application Engineers across Europe, Russia, Africa & Middle East
	• Increased the team from 1 to 5 Field Application Engineers, spread across Europe and China
	• Key-customers on-site debugging sessions:
	    • 5G SA Private Networks (Slicing and QoS optimization)
	    • Low Throughput troubleshooting and log debugging
	• Closely work with Intel, Qualcomm and MediaTek support engineers to debug and fix customer issues
	• Presales technical training to Fibocom EMEA Sales team
	• Project management for larger Key Accounts (over 4M $)
	• Organize workshops & training sessions to partner Distributors (Future Electronics, Endrich, M2M Germany, Acal BFi, Richardson RFPD, etc.)
	• Active Business Development with major EU MNOs (DT, VDF, TIM, Telefonica, Telia, KPN, etc.)

Employer	Fibocom Wireless EU GmbH – Miesbach, Germany
May 2018 – Apr 2021	**Field Application Engineer for EMEA**
Main activities and responsibilities	• Cellular specialist FAE with focus on direct communications with customers & distributors in EMEA • Wide RAT knowledge base: 2G / 3G / 4G (High-Speed & LPWA NB-IOT) / 5G (Slicing & Private NW) • Active debugging and feature optimization for 4G & 5G customer prototypes. • Extensive usage of Trace and Debug tools from multiple chipset vendors: Intel (STT), Qualcomm (QXDM), UniSoc (CoolWatcher) and MiniComLogger (MediaTek). • Open and closely track tickets related to customer issues. • Provide test/debug temporary SW version and validate fixes. • Provide architectural optimizations based on internal R&D recommendations to satisfy customer feature requirements and overall system performance • Develop strong relationships and become trusted advisor to system engineers & architects of our customer's R&D departments • Understand competitor's strengths and weaknesses to develop the appropriate technical strategy • During customer's product design, responsible for design assistance including onsite visits to review designs, examine customer requirements and provide optimal solutions for using Fibocom products.
Employer	Fibocom Wireless EU GmbH – Miesbach, Germany
Aug 2013 – May 2018	**Consultant – Interoperability and Certification Telecom Engineer**

Main activities and responsibilities	• Multi RAT Projects from Bring-up to Customer Delivery and Maintenance 2G / 3G / 4G / 4G-A • Lead of Back-office support task force for Protocol Stack troubleshooting • Prioritize customer and external tickets based on project phase and customer requirements • External network approval test sessions in NW vendor's labs: Ericsson, NSN, ALU/NOKIA, HUAWEI • Report results to project management on a daily/weekly basis • Support remote engineers from external NW Vendor's Labs • Proactive in project meetings to optimize IOT sessions and efficiently execute test campaigns • Propose tests according to new features for internal testing campaigns • Verify 3GPP conformance for tested features • Hosted Demo sessions for potential customers • Hands-on experience with wireless protocol analyser SanJole WaveJudge 5000 • Basic hands-on experience with multiple system simulators: R&S CMW500, Spirent 8100, Anritsu ME7834L
Employer	Outsourcing agencies for the same end-client: Intel Mobile Communication – Munich, Germany
July 2010 – July 2013	**Software integration test engineer (Alcatel-Lucent)**
Main activities and responsibilities	• LTE system integration & testing • Proposed and reviewed new tests for implementation of new features • Performed HetNet tests in on-air conditions • Built and analysed signal coverage maps for buildings and open field environments • Daily report on test activity progress and quality with high level of details • Updated and optimized test cases using Quality Centre • Close collaboration with development teams for testing patches and/or new software for corrections • Actively involved in teaching LTE for senior year students of the University from Timisoara • Closely worked with Director of High Performance Wireless Technologies & Networks from Bell Labs on a new LTE product for covering dense areas (Stadium Project) • Live Demo testing on a LTE SmallCells product for the CTO of China Telecom • Remote & on-site support for Telecom Italy and China Telecom • FTL (Feature Test List) design according to SAE documentation and 3GPP Specs
Employer	Alcatel-Lucent Romania – Timisoara, Romania)
May 2007 – July 2010	**Assistant software engineer / Telecommunications engineer (after graduation)**
Main activities and responsibilities	• Configuration and management of the telecommunication network • Administration of the ALCATEL 4400 Exchange fixed lines • Software upgrade for network equipment
Employer	University „POLITEHNICA" of Timisoara – Romania

Education and training

September 2017	**Embedded Systems - Microcontroller Input/output**, University of Texas System through EdX
April 2013	**Advanced practice on IP course**, Alcatel-Lucent University Timisoara, Romania
April 2012	**LTE training / LTE-Advanced training**, Sanchar GmbH
March 2011	**Linux fundamentals**, Alcatel-Lucent University Timisoara, Romania
November 2010	**Basic IP course**, Alcatel-Lucent University Timisoara, Romania
2017 – present	**PhD Student – System Engineering**
	• Vehicle to everything communications (V2X / C-V2X) • Improving traffic safety and efficiency
Institution	University of Petrosani – RO, Department of System Engineering
2009 – 2011	**Master's degree – Digital Signal Processing Engineer**
Principal subjects/occupational skills covered	• Adaptive techniques in telecommunications • Modulation and coding schemes used in LTE • Statistical and digital signal processing
Institution	University „POLITEHNICA" of Timisoara, Department of Telecommunications
2005 – 2009	**Bachelor's degree – Electronics and Telecommunication engineer**
Principal subjects/occupational skills covered	• Metropolitan networks – WiMAX and LTE • 2G and 3G telecommunication systems • Modelling and simulation for the telecommunication traffic
Institution	University „POLITEHNICA" of Timisoara, Department of Telecommunications
2001 – 2005	**High School Diploma – medium level software programmer**

Principal subjects/occupational skills covered	• Informatics • Mathematics • Physics
Institution	Advanced Informatics High School of Petrosani, Romania

Skills and competences

Languages	Romanian – Native proficiency English – Professional working proficiency (C1/C2) German – Limited working proficiency (B1) French – Basic conversational proficiency (A1/A2)
Social skills	• Able to adapt to quick changes, be proactive and self-motivated; take responsibility for my own work • Excellent time management skills; hardworking and efficient • Excellent reasoning skills; use logic and factual information to reach conclusions for taking quick and efficient decisions • Absolute discretion and confidentiality regarding sensitive information in every project • Ability to work well under pressure and effectively handle multiple, concurrent demands and appropriately prioritize tasks • Effective collaborate with other team members and act effectively to solve problems and stay on track towards accomplishing common goals • Excellent self-learner capabilities and able to quickly learn on the job • Able to share information with large groups - involved in teaching LTE to senior year students • *"Recognized for demonstrating extraordinary performance and role model teamwork"* by Doru Calin, Director - High Performance Wireless Technologies & Networks, Bell Labs New Jersey
Organisational skills	• Organize customer demos and visits for promoting new products and features • Keep track of parallel project developments and tracking of open issues for each project • Coordinate multiple suppliers and engineers from design houses for development of prototypes • Leading an EMEA tech support team spread in multiple countries across EU & China • Leading a worldwide spread support team for ticket analysis on Full Protocol Stack (L1/L2/L3) • Planning tests, management of resources and equipment • Organize external testing sessions for multiple NW vendors • Organize test campaign for China Telecom demo (while working for Alcatel-Lucent)
Technical skills	• Hands-on experience working with 2G / 3G / LTE / LTE-Advanced & NB-IOT + LTE-M / 5G products • Strong knowledge of networking under Windows and Linux OS • Strong understanding of 3GPP Release documentation • Excellent knowledge internal tools for Trace & Debug • Experience with multi-vendor mobiles: Intel, LGE, Qualcomm, BandRich, Sierra Wireless, UniSoc, ASR and AeroFlex TM500 multi-UE simulator. • RF Calibration of cellular modules using CMW500 from Rohde & Schwarz • Spirent SR5500 by using different propagation and fading profiles, performing DL/UL link adaptation • Performed On-Air testing by using Agilent E6474A (JDSU) and GPS module • SanJole WaveJudge 5000 / IntelliJudge wireless protocol sniffer • EVM and power control testing of UEs on different physical channels using SanJole • DL/UL scheduler testing using multiple internal tracing and post-process tools • Basic usage of measurement tools (oscilloscopes, power supplies, signal and spectrum analysers) General use programs: Microsoft Office Suite Programming languages (medium level): C/C++ and other scripting languages
Hobbies	Ski, Swimming, Camping, Stand-up-paddling, Squash, Hiking
Driving licence	Category B, obtained in 2004