

# ANKUR DAUNERIA

PHONE +91-9958592443 • E-MAIL ANKURDAUNERIA@GMAIL.COM

## SUMMARY

- **8.5+ years** of total work experience, wherein 1.5 years' experience in research works resulting in several patents in the area of M2M/IoT, Connected vehicle, Utilities, Policy charging and control, BSS etc.
- **Filed 12 patents** as **first author** in above areas. E2E responsible for technical design, development and proposing a patentable method/system for the identified technical gap against the prior arts for filling as patent.
- **Lead a technical developer/tester team as Scrum Master.** Key responsibilities involve technical design, development, code review, testing (Unit Testing and Functional Testing and Integration Testing) and related specification/documentation.
- Strong experience in **software product design, development** and **debugging issues**. Experience in product development in Telecom Mediation Software Solution (BSS/OSS) at Ericsson Product Development Unit.
- Done software development in **C/C++/Java** on Solaris x86, Sparc, HP-UX and Linux platforms. Experienced in handling STL/Rouge wave libraries, algorithm, data structures and design patterns.
- Knowledge of working in Veritas Cluster and Veritas Storage Foundation
- Experience in **Agile methodologies** and have practiced pair-programming, extreme programming and Test driven development etc.
- **Drive** innovation activities related to patents in various agile teams. Helps in identifying technical gaps, techniques for searching, understanding prior arts and refining ideas against the prior arts.
- Represented and travelled as Ericsson delegate to M2M specific international technical standards forums (like oneM2M, BBF)
- **One research Publication** in IEEE.
- Won several **National Level Paper Presentation** competitions.

## WORK EXPERIENCE

Sep 2007 – Present

**Organization:** Centre of Excellence, Mediation & Device, R&D - Gurgaon, Ericsson Global Services India

Duration	Role
April 2014 onwards	Architect
March 2011 to April 2014	Senior Developer
Sep 2007 to March 2011	Developer

Product Summary: **ERICSSON MULTI MEDIATION (EMM)** facilitates the user to collect charging data from various types of network elements. The charging data is generally referred to as call detail records. The call detail records are processed in File and event mediation before they are distributed to different types of business systems, for example, billing system, long term storage, clearing house, and fraud detection system.

### Responsibilities:

- Filed **12 patents** as **first author** in the fields of M2M/IoT, Policy Control and Charging, Utilities, Connected vehicles, OTT, analytics, BSS areas.
  - [WO2016113750](#) *Methods and apparatus for monitoring and managing resource usage in a communication network*
  - [US20160182297](#) *Methods, network nodes, and computer program products for price signal for network optimization*
  - [US20160163194](#) *Method, alert control device, street light, computer program and computer program product for alerting traffic*
  - [WO2016072889](#) *Analysis of connection patterns in a communication network*

- [WO2016056967](#) *Method and arrangements for prioritization of traffic flows in a telecommunication network*
- [WO2015178810](#) *Managing effects of a scheduled outage of mains power*
- [US20150073891](#) *Method and system for determining user advertising ratings*
- [WO2015022026](#) *Electrical device with NFC tag*
- [WO2015012750](#) *Camera controlled electrical fan*
- Responsible for identifying the technical gap against the prior arts, design and development of novel systems and methods from scratch for problems relating above areas and protect them with appropriate IPRs. Provided necessary technical inputs (technical design of proposed method/system, call flows, sequence diagrams, flow charts, and simulation results (if any)) required for patent drafting towards systems/solutions being protected by IPRs.
- Mentoring young innovators & driving innovation activities related to IPRs across all teams within the CoE. Experienced in driving collaboration with different researchers/teams within Ericsson across geographies.
- Responsible for providing technical inputs towards technical specifications/standards (oneM2M, BBF) related proposals in M2M device management. Represented Ericsson in international technical standardization forums across the globe: Broadband Forum (BBF) - Portugal 2015, oneM2M - France 2015.
- Served as Scrum Master for a technical team of 2-3 developers. Supervised younger members within the team and guided them technically around design, development, testing (unit testing, functional testing and integration testing), design/product documentation and innovation.
- E2E responsible for design, development, maintenance, code reviews, live, testing and integration of applications/product feature on the production machines. Design, develop new features of Ericsson Multi Mediation (EMM), product customizations and their related Proof of Concepts (POC).
- Experienced in technical design feasibility study of Product Customizations (PC) on EMM and provide estimates on the same. Gathered technical requirements, analyze them and converted concepts to deliverable features.
- Done product development in C/C++, Java on Solaris x86, Sparc, HP/UX and Linux platforms. Regularly practiced pair-programming, extreme programming and Test-driven development in Agile WoW.
- Improved the performance of Consolidator functionality by 50%, by improving its shared memory usages with respect to its old design, leading to increased sales of this licensed feature.
- Designed and developed from scratch several DUP (Ericsson Data Processing Language) functions, ASN1s and downgrade formatters DUP logic between releases. Developed new Collectors, Distributors, ASN.1s and formatters.
- Ported server functionalities of EMM product on new 3PP versions and platforms (Solaris x86 and Linux).
- Part of design team to develop performance monitor functionality which captures the performance parameters and monitors the performance of EMM nodes (logical servers running on unix, linux platform) with respect to defined counters and display it as graphs.
- Responsible for new feature support on different platforms, upgrade paths between current and upcoming releases of EMM, managing end to end License management of upcoming new developed features, PCs.
- Responsible for writing new and updating old unit-test cases for enhancing the reach of overnight runs of auto-test suites over legacy code with introduction of new features.
- Responsible for debugging and fixing Customer TRs on several EMM releases (5x,6.x,7.x,8.x). Providing Emergency Packages (EP) for issues as when required by Customers/Market Unit in a time bound manner.
- Responsible for writing and review of Functional, Non-Functional and Integration test (IT) cases. Perform installation, up gradation and testing (Functional testing, IT testing and Performance testing) of EMM on stand-alone and Cluster setup. Performance testing involves tuning, dimensioning and optimization of newly delivered features and configurations on various platforms.
- Responsible for CSR handling from Product Development Unit (PDU) for EMM. Debugging Customer configurations, fixing issues in corresponding DUP logic and registering TRs for product fault. Besides, actively communicated with other lines of support within Ericsson.
- Actively participated and contributed in activities like FOA (First Office Application), Exemption Request (ER) for major releases of EMM in quick issues/product faults resolution raised at site.
- Responsible for time bound Emergency resolution of Customer CSRs on EMM releases (EMM5.0, EMM6.x, EMM7.x and EMM8.x) as part of 24x7 PDU Rota team. Managed and drive the escalations for Customer TRs/CSRs and actively interfaced with tier-2 support for corresponding TR/CSR.
- Actively participates in organizing the yearly Coding Hackathon events (2013, 2014, 2015) for our Center of Excellence.

## RESEARCH PUBLICATIONS

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Ankur Dauneria & Kumari Indu, "Encryption Based Data Hiding Architecture with Text Pattern Authentication and Verification," citworkshops, pp.236-241, 2008 IEEE 8th International Conference on Computer and Information Technology Workshops, 2008.

## HONOURS

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- Won **12 Patentable Invention Awards** at Ericsson for successful filing of inventions as Patents.
- Won EGI wide **President Award** at Ericsson in Q2 2013 for getting 4 inventions accepted for filing as patents from Product Development Unit (PDU), Gurgaon.
- Several of my **patent related interviews** were published worldwide on Ericsson intranet (**2 at EGI wide level and 1 Global Ericsson wide level**).
- Won several prizes for National Level Inter Collegiate Paper presentation contests.
- Exhibited painting and Stamp collection at College Fest 'Bhartiyam 2007'.

## ACADEMIC QUALIFICATIONS

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- B.E. (Computer Science) with 67% from Bharati Vidhyapeeth College of Engineering, Pune , in 2007.
- Intermediate [10+2] with 77% from CBSE.
- Matriculation [10th] with 84% from ICSE.

## TECHNICAL SKILLS

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Languages	:	C/C++, (Multi-threading, IPC, Socket Programing, Shared Memory), STL, Rogue wave library, Design Pattern, UML.
Other Language	:	Java. Ericsson Data Unit Processing (DUP)
Databases	:	Oracle, Postgres, PL/SQL, MySQL.
OS / Platform	:	Unix, Linux, HP/UX, Windows 2000/XP/7, Solaris x86, Solaris Sparc, HP PARISC, HP Itanium, Ubuntu, Veritas Cluster and Volume Manager
Hardware	:	X86, SUN Sparc, Intel
Scripts	:	Shell Scripting, awk, sed
Design Tools	:	Rational Rose, UMLet
Debugging/SCM/ Editing tools	:	Gdb/mdb, dbx,Eclipse, JProfiler, Junit, Mingle, Cobertura, purify, quantify, valgrind maven, makefile, gerit, svn, jenkins
Version Control	:	Clear case, GIT
Telecom Network Nodes	:	SDP, CCN, BSCS, AF, AIR
Protocols	:	TCP/IP, UDP, HTTP, SFTP, FTP, TELNET, SCAPv2, LWM2M
EMM Application Components	:	Veritas Cluster, Veritas Volume Manager, EMC Storage (EMC Clarion ax4-5 and EMC VNX 5100)

## PERSONAL PROFILE

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- Date of Birth: 03-01-1984
- Marital Status: Married
- Sex: Male
- Language Known: English, Hindi.
- Address: 45 - C, Pocket - 'C', Siddhartha Extension, New Delhi 110014, India.

## REFERENCES

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Available as per request.