***A Lead V&V QA engineer with 13 years of IT Experience. Highly motivated, Strong desire to learn and contribute Demonstrated constant performance and got recognized by both IT and Business Leadership.***

***Profile at Glance***

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| --- |
| * Having 13+ years of IT experience in Multiple domain knowledge
* Expert in **Healthcare Domain.**
* Currently working as **SW QA Engineer IV** and **vCloud Administrator** in Varian Medical Systems - Pune
* Extensively worked on **Electronic Health Records** (**EMR/EHR**) and Radiology Information System (**PACS, DICOM**), with various virtual modalities.
* **Currently working in ARIA v17.0 and Clinical Quality Measures (CQM for 2020 Measures)**
* **Expert in NQF Analysis and workflows for Prostate cancer, Breast Cancer, HI risk medications, Cervical Cancer Screening, Colorectal Cancer, Upper respiratory infections, QRDA-I and QRDA-III reports etc.**
* Working knowledge in **Computer Radiography** (CR), **Migration of PACS**, and **DICOM Send between workstations, DICOM Configuration** and **complete lifecycle of EMR/EHR**
* Having good knowledge in **DICOM formats** and **HIPAA** Guidelines.
* IT enablement for Healthcare, (Inc. HL7, DICOM, PACS, HIPAA etc.,)
* Having good experience on testing life cycle, designing and execution of test cases and defect report, release documentation.
* Involved in various testing levels like System, sub system, configuration, integration and Ad-hoc.
* Played a Vital role to achieve **Drummond** Certification for **ARIA EMR**, **CCHIT** certification for **Criterions EHR, RSNA** certification [connecthon] for syngo.via etc.
* Performed **ISO 9001:2000, ISO 9001:2008** audits for IT, Medical Coding, HR, Finance, EDI, Facilities and Purchase departments.
* Performed **ISMS** Audits for entire IT, Facilities/Admin, Network, Purchase and Finance departments.
* Created all Quality manuals (A-L documents) and successfully completed the Auditee activities for DICOM and EHR projects.
* Installation Expert of Dicom, EHR applications.
* **Having 5 years of experience as vCloud administrator, infrastructure management, Hyper-V, Citrix and Azure.**
* Good Knowledge on SRS (Siemens Remote Services) and Hanging Protocols.
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# Onsite Experience

* Worked in **Siemens**, “Erlangen” (Germany) at customer place for months (May2011 to Dec 2011) on deputation for Subsystem level testing.
* Worked in Canada for CCS (Comprehensive Cancer Solutions) setups and testing

# PROFESSIONAL SUMMARY

* Worked as “Software QA Engineer” Level IV and vCloud administrator in Varian Medical Systems from 1 Jun 2015 till 20 Jul 2020
* Worked as Tech Lead V&V with IGATE, Pune from 22 May 2014 till 28 Feb 2015.
* Worked with “Apollo Health Street”, Hyderabad from 7th Sep 2006 – 06th May 2014

# CERTIFICATIONS

* Certified Software Tester (**CSTE**) from QAI Worldwide organization**, USA**, October 2007
* Certified **ISO 9001:2000 Auditor, TUV South Asia** Dec 2006
* **HIPAA** internal certificationin Apollo Health street
* **Radiologists meet** for advanced visualization tools training by Apollo Health Street.
* vCloud Administrator

# PRODUCT CERTIFICATIONS PARTICIPATION

* Validation engineer to achieve **“Drummond” (MU3)** Certification for **Clinical Quality Measures 2018 and 2019** Measures for ARIA Product.
* Participated as key verification and validation engineer to achieve **CCHIT** certification for Criterions Product
* Participated as key verification and validation engineer to achieve **Sure Script for eRx** certification for Criterions Product
* Participated as key verification and validation engineer to achieve **RSNA** certification for Siemens product.

# TRAINING

* CCS (Comprehensive Cancer Solutions) with HL7 interfaces among medical oncology and Radiation oncology.
* Clinical workflows for Prostate cancer, Breast Cancer, HI risk medications, Cervical Cancer Screening, Colorectal Cancer, Upper respiratory infections, QRDA-I and QRDA-III reports etc.
* vCloud and Azure certification.
* RIS integration and complete workflow
* DICOM Standards, PACS fundamentals, HIPAA and IHE.
* Trained on latest functionalities like CT Neuro DSA, Chest CAD, Cardio, MR Neuro Perfusion, Colon etc.

# EDUCATION

* **Master of Computer Applications** from Osmania University, India

# ACHIEVEMENTS

* Received several Bravo awards from Varian Medical Systems.
* Received “**Star Performer**” award from Apollo Health Street.
* Received “**Pat on back**” award from Apollo Health Street.
* Received “**Finding Number of High Quality defects**” award from Apollo Health Street.

# TECHNICAL SKILLS

Testing Tools QC-12. CQ-10, Egg Plant, Charm NT, DICOM Compare, DICOM Edit, Azman Tool, Test Spec Editor, Test Bench, Caliber, Bugzilla, Signature-Server, Norton ghost, Acronis True Image, Import/Export tool (for clone)

Front End Applications ASP.NET, C#, VB.NET

Database Oracle 11i, 10g, SQL Server2012,2014 and 2019, MS-Access

Language C++, HTML

OS MS Windows XP/7/8/10/NT/2000/2008-R2 Server, 2012 R2, 2016 Ent , 2019 and Mac systems

Environments VM Ware, Domain Servers

Design Methodologies UML, Rational Rose Enterprise Edition

Web/Application Server IIS, Special DICOM Servers from Siemens, PACS servers, RIS Server, Simulators from Siemens

Source Control VSS, Quality Center 10, TFS

# PROJECT: “Clinical Quality Measures”

**QA Engineer IV**

## Varian Médical Systems - Pune

**Client** : **Varian**

**Testing Tools** : QC-12, TFS 2018, CQ9,

**Software** : ASP.NET,C#, SQL Server 2014, XML

**Duration :** 2017-May to Till date.

Worked as a validation engineer for oncology-based Practice Management Systems and Meaningful Use-3 (CQM 2017, 2018 and 2019 measures). Clinically validated cancer workflows for 14 NQF's including (Prostate cancer, Breast Cancer, Hi-risk medications, Cervical Cancer, Colorectal Cancer, Upper respiratory infections etc.). Extensively worked on QPP, MIPS including PQRS (Physician Quality Reporting System) with QRDA-I and QRDA-III reports.

**Responsibilities:**

* Preparing Verification and Validation Plan (VVP)
* Preparing all the Test Metrics for management and Customer
* Thoroughly understood business cases and prepared test strategy.
* Giving training to team members on domain for better quality outputs.
* Identified internal and external stakeholders for various test phases.
* Ensured appropriate environment settings for the testing platform (MO only, RO only and CCS)
* Prepared Traceability matrix for design completeness.
* Worked with Business users to prepare SDD specifications.

Provided Daily and Weekly testing status reports

* Reviewed deliverables for customer like Sanity log, System test log, Work Allocation Sheet etc.
* Subject Matter Expert in identifying risk-based testing scope.
* Worked with integration partners to come up with regression test strategy, scenarios and Test Scripts.
* Complaint handling

# PROJECT: “ARIA Practice Management and ARIA Notification

**QA Engineer IV**

## Varian Médical Systems - Pune

**Client** : **Varian**

**Testing Tools** : QC-10, TFS 2018, CQ9,

**Software** : ASP.NET,C#, SQL Server 2014, XML

**Duration :** 2015-Jun to 2017-Apr.

ARIA is a radiation oncology practice management tool which serves as EMR to facilitate the patient records being made available as and when the patient goes through the clinical workflow defined by the radiation oncology department. It provides the clinic with the tools to improve the flow and sharing of patient information from registration till treatment delivery for a radiation oncology patient.

ARIA Oncology Information System for Radiation Oncology consists of several modules to maintain patient information, planning of activities (treatment or task appointments), maintain patient documents, approve treatments, record billing data, and print reports.

ARIA Notification is a separate license-based application which tightly coupled with ARIA PMS which sends the patient appointment related notification to the physician over mobile.

**Responsibilities:**

* Preparing Test Plan
* Preparing all the Test Metrics for management and Customer
* Thoroughly understood business cases and prepared test strategy.
* Giving training to team members on domain for better quality outputs.
* Identified internal and external stakeholders for various test phases.
* Ensured appropriate environment settings for the testing platform
* Worked closely with Business partners and Development team to identify appropriate test scenarios and test cases.
* Prepared Traceability matrix for design completeness.
* Worked with Business users to prepare SDD specifications.

Provided Daily and Weekly testing status reports

* Reviewed deliverables for customer like Sanity log, System test log, Work Allocation Sheet etc..
* Subject Matter Expert in identifying risk based testing scope.
* Worked with integration partners to come up with regression test strategy, scenarios and Test Scripts.

# PROJECT: “Aqullion One”

**Tech Lead V&V**

## IGATE, Pune

**Client** : **Toshiba [Japan]**

**Testing Tools  :** Eggplant, Contrast Preset tool, DICOM Edit, Iview tool, Redmine

**Software** : ASP.NET,C#, VC++, SQL Server 2012, Java applets

**Duration :** 2014-May to 2015-Feb.

Aquilion ONE Vision Edition offers all patients a successful examination, with the lowest possible

radiation exposure and the highest quality diagnostic outcomes. This new modality is a complete

solution for acquiring contrast images in sophisticated way. Aquilion One provides so many advanced

features during the acquisition like 'Sure start graphs, contrast presets, EP presets etc..

**Responsibilities:**

* Preparing Test Plan
* Preparing all the Test Metrics for management and Customer
* Thoroughly understood business cases and prepared test strategy.
* Giving training to team members on domain for better quality outputs.
* Identified internal and external stakeholders for various test phases.
* Ensured appropriate environment settings for the testing platform
* Worked closely with Business partners and Development team to identify appropriate test scenarios and test cases.
* Prepared Traceability matrix for design completeness.
* Worked with Business users to prepare SDD specifications.

Provided Daily and Weekly testing status reports

* Reviewed deliverables for customer like Sanity log, System testlog, WAS etc..
* Provided mentorship to Test team.
* Subject Matter Expert in identifying risk based testing scope.
* Worked with integration partners to come up with regression test strategy, scenarios and Test Scripts.

# PROJECT: “syngo.via”

**Sr. Test Engineer**

## Apollo Heath Street, Hyderabad

**Client** : **Siemens [Germany]**

**Testing Tools  :** Test Spec Editor, Charm NT, Caliber, TFS, Signature Server, Azman tool, DICOM Edit.

**Software** : **ASP.NET,C#, SQL Server 2012, Java applets, Ajax.**

**Duration : 2009-Aug to 2014 Apr.**

“syngo.via” is a client-server and advanced visualization software for medical images from Siemens. It provides end to end workflow for RIS. syngo product is true multimodality solution that supports PET, CT, MR, DX, CR and ultrasound studies. This application contains many advanced features like VRT, 4D reading for Cardiac function, Fly through for colonoscopy, Digital neurology etc.. Especially it defines a new experience in PET-CT and Image Fusion for oncology readings to give better diagnosis and vessel tracking for advanced visualization of aorta and other areas.

**Responsibilities:**

* Thoroughly understood business cases and prepared test strategy.
* Identified internal and external stakeholders for various test phases.
* Ensured appropriate environment settings for the testing platform
* Prepared Test data for syngo.via Infrastructure Mgmt, Imaging, Viewer etc...
* Worked closely with Business partners and Development team to identify appropriate test scenarios and test cases.
* Prepared Test cases and executed System and Integration Testing based on MRS/SWRS.
* Prepared Traceability matrix for design completeness.
* Worked with Business users to prepare UAT specifications.
* Assisted Business users in executing User Acceptance testing.
* Provided Daily and Weekly testing status reports
* Reviewed various test documents.
* Provided mentorship to Test team.
* Subject Matter Expert in identifying risk based testing scope.
* Worked with integration partners to come up with regression test strategy, scenarios and Test Scripts.
* Came up with performance test bed and Test Strategy.
* After successful performance testing, provided various PT results for further evaluation by architects.
* In addition, assisted in performing post deployment testing.

# PROJECT: Criterions – Electronic Health Records (EHR)

**Sr. Test Engineer**

## Apollo Health street, Hyderabad

**Clien**t: **Criterions [USA]**

**Test Tools  : TFS, Defect tracker**

**Software** : **ASP.NET, C#, ORACLE 9i.**

**Duration : 2008- Aug to 2009-July**

**Project Details**

 Criterions application is a core EHR project that facilitates capturing patient demographics, medical history, medication history, allergies, immunization history, laboratory test results, radiology images, vital signs, personal stats, etc. It also captures E-Prescription from Physicians. Prescriptions are captured through various handheld devices like tablet PC.

**Responsibilities:**

* Worked closely with business and development teams to understand both functional and technical use cases.
* Prepared Test Plan, Strategy, Test cases for various modules like:
	+ Visit History
	+ Patient (demographics)
	+ Prescriber
	+ Drug Interactions
	+ Medical History (Drug and non-system Allergies, Health conditions - ICD9 )
	+ E-Prescriptions ( via various channels)
	+ Evaluation and Management (E&M) (Vitals, Disease Codes and CPT Codes)
	+ Medical Claims Processing.
* Prepared clinical test cases for CCHIT certification and shared to customer.
* Ensured appropriate environment settings for the testing platform
* Prepared Traceability matrix for design completeness.
* Performed System Testing and Integration Testing.
* Assisted Business users in executing User Acceptance testing.
* Provided Daily and Weekly testing status reports
* Reviewed various testing documents.
* Subject Matter Expert in identifying risk based testing scope.
* Worked with integration partners to come up with regression test strategy, scenarios and Test Scripts.
* In addition, assisted production support teams to perform post deployment testing.

# PROJECT: MammoView

**Sr. Test Engineer**

## Apollo Health street, Hyderabad

**Clien**t: **Medigration – PACS Company [Germany]**

**Title** : MammoView

**Environment** : ASP.Net, C#, SQL Server 2000,

**Testing Tools** : DICOM Compare, DICOM Edit, VSS, TSE

**Duration : 2007- May to 2008 -July**

**Project Details**

Medigration pioneered in making medical imaging software & hardware tools. It has been providing the services to medical departments all over Europe especially in Germany. Mammoview Software is a mammography screening solution. It gives edge to the doctors over the traditional method of X-ray & image process of the patient. It has a tight integration with KV software for screening purpose. This application has various feature working based on Hanging protocols and many advanced features like DcmSend, cdBurn, Medigration PACS, Fast Store, file2NERO, Konfigtool etc..

**Responsibilities:**

* Identified internal and external stakeholders for various test phases.
* Worked with business team to understand use cases.
* Prepared Test plan, Test scenarios and Test cases.
* Prepared Traceability matrix for design completeness.
* Played a vital role in ensuring appropriate environment preparation for the testing platform
* Analyzed error logs before creating defects.
* Assisted business users in user acceptance testing.

# PROJECT: ImageWeb

**Test Engineer**

## Apollo Health street, Hyderabad

**Clien**t: **Medigration – PACS Company [Germany]**

**Title** : ImageWeb

**Test Tools** : DICOM EDIT, DICOM Compare, VSS, TSE

**Software** : Java 1.5, SQL Server 2000, IE 6.0

**Duration : 2007- Jan to 2007-Apr**

**Project Details**

 ImageWeb is a web based application to access DICOM images remotely through an applet. It’s been modularized into client and server where client makes a request to the server for the details. The server processes the request and will return the details accordingly. This application having the features of DICOM compress lossy & lossless, advanced tools like measurement, viewing and editing etc..

**Role:**

Tester for entire application

**Responsibilities:**

* Thoroughly understood business cases and prepared test strategy.
* Identified internal and external stakeholders for various test phases.
* Ensured appropriate environment preparation for the testing platform
* Worked closely with Business partners and Development team to identify appropriate test scenarios and test cases.
* Prepared Test scripts to perform System Testing and Integration Testing.

# PROJECT: Bond Clinician EHR

**Test Engineer**

## Apollo Health street, Hyderabad

**Client** : **Bond EHR**

**Title** : Bond Clinician EHR

**Environment** : Java 1.5, SQL Server 2000, IE 6.0

**Duration : 2006- Sep to 2006-Dec**

**Project Details**

Bond Clinician EHR is an HIS (Hospital Information System) which offers large hospitals the most advanced electronic health record available today. Our company is involved in developing some of the modules for this project. Some of the major modules developed by us are given below

          **KIOSK Module**

This module is mainly for patients. It provides the patient to create his/her profile, answer past histories, view already existing profile or answer series of chief complaints.

          **Query builder Customized Reports**

 This module enables user to generate custom reports.

          **Inventory Module**

 This module handles all the inventory functionality throughout clinician.

          **CCR Module**

          **PM Reports**

          **Patient Portal Module**

**Responsibilities:**

* Requirement gathering.
* Involved doing analysis and design specifications
* Preparing Estimations
* Test specification preparation and Execution
* Performed Functional, Regression and System Testing.