

Santhosh Injineri

Looking for Master Thesis in Hardware Design or Verification -
Kaiserslautern, Germany

W: <http://www.worky.com/santhosh-injineri>

Worked over more than 4 years in IT Industries(SUNMicrosystems , Hewlett Packard)

Worked with SUN Microsystems INDIA PVT ltd for 1.5 years in Cloud Computing team as Member of Technical staff with job role of Test case design, identification, development, Test Framework involving Functional testing, System testing, High Availability testing, Failover Testing. Managed team of 6 engineers.

Worked 2+ years of experience in software industry with Hewlett Packard UNIX platform Product certification, Testing, quality assurance, Validation .

Santhosh Injineri's Professional Experience

2011 - 2011 **Techn. University of Kaiserslautern / TU - Research Assistant**

Working on EsaaRel Project (<http://www.essarel.de/>) my tasks involves designing tool for FTA(Fault Tree Analysis)

1. Component fault trees (CFT).
2. State/event fault trees (SEFT).

Using EMF Ecore models. and GMF modeling for palette , editor creation. Java code for the fault tree Analysis and SEFT analysis..

Key Skills HTTP, Java

2011 - 2011 **Techn. University of Kaiserslautern / TU - Research Assistant**

Working on analyzing the power consumption of CPU using ARM 7TDMI. Helping the PhD student in his research topics such as Resource Management, Scheduling Algorithms(Real-Time).P

Programming : C , C++

Key Skills programming, Resource Management

2010 - Present **Techn. University of Kaiserslautern / TU - Student (MS in Embedded Systems)**

I am pursuing MS in Embedded Computing @ University Of Kaiserslautern, Germany...I joined the course in March-2010 (Summer Intake) and I will be completing my course in March-2012..

Major Subjects of study involves

1. Digital Systems Verification/Design.
2. Safety and Reliability of Embedded Systems.
3. Synthesis and Optimization of Microelectronics.
4. Architecture of Digital Systems.
5. Microelectronic Circuit and System Design.
6. Automotive Software Engineering (Model Based Development)
7. Real Time Systems
8. Operating Systems
9. Bus Systems.

Key Skills architecture, embedded, engineering, Operating Systems, Software Engineering, System Design

2010 - Present **University Of Kaiserslautern - Research Assistant**

working as student assistant in University of Kaiserslautern , Microelectronics Systems Research Group.

Project:

Virtual Prototyping Using Synopsys tools.

Project:

Scheduling algorithms and Resource allocation algorithm for Avionics systems.

Project:

EssaRel(Embedded Systems Safety and Reliability Analyser) tool development with SEFT(state event fault tree)

2008 - 2010 **Sun Microsystems - Member of Technical staff**

Worked in Cloud Computing QE team.

- o Developed TEST FRAMEWORK for our team (of 9) using SHELL Scripting.
 - o TEST COVERAGE Analysis (cobertura).
 - o Involved in Functionality, System Testing, MAJOR Failover/Failure tests.
 - o Test case development, Test case Automation, Identifying the Liveness tests.
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Key Skills automation, Scripting, Shell Scripting, System testing

2008 - 2010 **SUN Microsystems India - member of Technical Staff**

1. API Development for Cloud Storage offerings and TestFramework development for SUN Cloud QE team

I was single handed designed and developed the whole test Framework for the QE team in Cloud Service and was appreciated by the other teams also. This involved in coming up with the automated test Framework for QE team.

2. Testing of Storage offerings by Cloud Services

My role was to perform the Functional testing of Storage Offering like Creation of Volume/Snapshot /Clone . And test the WebDAV offering for upload of files/folders using different clients.

High Availability testing - Make sure that User data is available at all the times for the user
Failover testing and System testing Involved in integration of different modules and testing the product as whole. Test coverage for the whole Storage offering testing. Testing for Amazon compatibility.

Key Skills API development, C++ PROGRAMMING, Shell Programming, Testframework , testsetup

2006 - 2008 **Hewlett-Packard - Software Engineer**

Have worked on HP-UX PA and IPF Enterprise Servers

- o Manual testing of products which are ported onto HP-UX.
- o Automation of test cases using shell/expect scripting.
- Porting experience: Porting OpenSource applications on to HP-UX.
- Testing / Certification of Metrocluster EVA Product.(High Availability product)

Worked on HIDS (Host based Intrusion detection system) project for developing plugins.

Key Skills automation, Scripting

2006 - 2008 **Hewlett Packard India Software Operatins - Software Engineer/Team Lead**

1. Automated Infrastructure development for Metrocluster CA EVA product.

Adding new feature to MetroCluster Product , Designing and developing test infrastructure and testing tool for new feature added and integrating with an existing automation test suite. Since there are test suites available for mass storage but no similar test suite for HP's Metrocluster product, my responsibilities was to design/develop and integrate the test infrastructure for HP's Metrocluster product along with automating test cases. The test automation and integration could reduce manual testing upto 70%.

My role was to certify newly introduced Firmware and other supported software. This effort involved ring setup, feature certification and defect filing and tracking.

Key Skills C++ PROGRAMMING, Cluster, High performance Computing, Porting, Shell Programming, Test

2005 - 2006 **CodeTheatre - Associate Software Engineer**

Worked on following 2 projects.

1. 3DES tool kit development: The DES (Data Encryption Standard) algorithm is the most widely used encryption algorithm in the world. My role was coding in C, Testing, creating a user guide (Reference).

2. RIS Compliant Parking Meter : This is an Electronics Transit Fare Payment system, which will support both contact based and contact less smart card. The aim of this project is to make all parking & garage meter in a region as RIS (Regional Interoperabilities standard) Complaint. RIS is the standard, which is developed by the PANYNJ (Port authority of New York and New Jersey). Older/Existing system is agency dependent, which means we need to take smart card of same agency of which reader we use. New RIS complaint parking meter supports all agencies card.

Key Skills data, electronics

Santhosh Injineri's Education and Qualifications

2011 **Masters/PostGrad - Embedded Computing Systems**

Technische Universität Kaiserslautern

I am Santhosh Injineri from India, pursuing my masters in Electrical and Computer engineering at Technical University of Kaiserslautern, Germany with Embedded Computing Systems as my major.

Course Reference : CR590 - Electronic Systems Engineering

2005 **Bachelor/Degree - Electronics and Communication**

Sapthagiri College of Engineering , Bangalore

Received award for getting distinction (75% and above) in all semesters during B.E

Course Reference : DT008 - Electronics and Communications Engineering

2005 **Bachelor/Degree - BE, Electronics and Communication Engineering**

Visvesvaraya Technological University

Bachelor/Degree - MS, Embedded Computing

Technische Universität Kaiserslautern

Santhosh Injineri's Additional Information

Links

Linkedin Profile - <http://www.linkedin.com/in/santhoshinjineri>

Interests

System On Chip , Network On Chip, Multi-core systems,High level Synthesis,Device Driver Programming, Python, Mode Driven Development, Automotive Software Development, Eclipse Plugin, RCP, Algorithm Engineering(Telecom,Neural Networks)
