VIJAY RAJAN MACHINGAUTH

ENGINEERING DIRECTOR, INTEL CORPORATION



ABOUT

CAMPBELL, CALIFORNIA, CA

☑ VIJAY.RAJAN@GMAIL.COM ☑

(408)-797-4215 C

HARDWARE ARCHITECTURE & DESIGN

MICROPROCESSORS
DEBUG
FIRMWARE DESIGN &
VALIDATION
CAD AUTOMATION
RTL DESIGN & VALIDATION
ARCHITECTURE
SYSTEMVERILOG
POST-SI VALIDATION
SOC POWER MANAGEMENT
EMULATION
SIMULATION

SOFTWARE/PROGRAM MING LANGUAGES

C C++ PYTHON PERL RUBY X86/IA32

GENERAL ASSEMBLY LANGUAGE PROGRAMMING DEBUG

LEADERSHIP

MENTORING
BUILDING & LEADING HIGHVELOCITY TEAMS
PROJECT MANAGEMENT

LANGUAGES

ENGLISH, TAMIL, MALAYALAM, HINDI

SUMMARY

Building & leading high-velocity teams focused on solving complex engineering problems, managing cross-geo teams, SoC power management, firmware validation, arch/micro arch debug in pre/post-si env, ARM and X86 architectures, CAD tools development for microprocessors/graphics, emulation bring up/debug/collateral development, Arch simulation & modeling, Virtual Platforms, C, C++, python, perl & ruby

EXPERIENCE

INTEL CORPORATION [7]

07/2021 - PRESENT

ENGINEERING DIRECTOR, SOFTWARE & ADVANCED TECHNOLOGY GROUP

Lead the Client power management virtual platform development and the Advanced Architecture simulation & modeling teams - responsible for delivering client Simics Virtual Platforms with power management capabilities, R&D of advanced simulation capabilities/models that enable various PnPnT studies & use cases

INTEL CORPORATION [7]

11/2015 - 06/2021

SENIOR ENGINEERING MANAGER TECHNICAL, IPG

Led the server power management IP/firmware validation and the Intel server manageability IP development teams - delivering power management FW for all Intel server products & Intel server manageability IP.

• Icelake Server, Snowridge, Icelake-D, Sapphire Rapids, Intel 4 Server Products

SAMSUNG INDIA SOFTWARE OPERATIONS, BANGALORE ☐

07/2014 - 09/2015

SENIOR CHIEF ENGINEER, VALIDATION ARCHITECT

Senior Chief Engineer and Validation Architect responsible for validation strategy for Exynos mobile SoCs. simulation, emulation, multi-IP & multi-processor validation strategies

05/2012 - 06/2014

TECHNICAL LEAD, POST-SILICON VALIDATION

Led a team focused on Xeon power management post-silicon validation. Driving test content development, execution and debug. Responsibilities include content and execution planning, failure debug for internal and externally reported issues.

 Lead power management post-si validation of Jaketown, lvytown and Broadwell Server

INTEL TECHNOLOGY INDIA PVT LTD ☐

07/2010 - 06/2014

TECHNICAL LEAD, POST-SILICON DEBUG AND DEBUG TOOLS

Led a team developing post-silicon debug tools. These tools are used for the post-si system debug of Intel multi-core Xeon Microprocessors. Validation of power management features and manual debug of failures.

INTEL TECHNOLOGY INDIA PVT LTD

07/2008 - 07/2010

TECHNICAL LEAD, SV TOOLS

 $Led\ a\ team\ to\ develop\ post-si\ tools\ that\ increased\ debug\ productivity\ and\ improved\ TTM.$

INTEL TECHNOLOGY INDIA PVT LTD ☑

10/2003 - 11/2008

SENIOR CAD ENGINEER

Validation tools - architectural/micro-architectural pre-silicon validation tools, developing simulation/emulation solutions.

EDUCATION

UNIVERSITY OF MINNESOTA

09/2001 - 05/2003

MS COMPUTER ENGINEERING & MATH (MINOR)

SRI VENKATESWARA COLLEGE OF ENGG, CHENNAI 06/1997 - 05/2001 B.E. ELECTRICAL AND ELECTRONICS ENGG

AWARDS

INTEL ACHIEVEMENT AWARD

INTEL CORPORTATION

Intel Achievement Award (IAA) for RTL simulator development and deployment.

