Gurmeet Singh

[08-11] CONTRACTOR @(QUALCOMM, SANDISK)

• Setup 40nm Cadence based, automated, tapeout ready, block level implementation flow using Tcl/Makefile programming.
• WiFi ASIC #1: Implementation of a large block using Magma. Silicon Success.
• WiFi ASIC #2: Full chip EM/IR signoff using Apache-Redhawk. Silicon Success.

[06-08] TERANETICS, PRINCIPAL ENGINEER

10GBASE-T PHY ASIC: Implement many large blocks, some using x-route. Automate implementation, static timing analysis, logical equivalence and physical verification flows using Perl and Tcl. Power estimation. Silicon Success.

[04-06] AIRGO NETWORKS, PHYSICAL DESIGN MANAGER

Multiple WiFi ASICs: Implement many blocks using Magma. Automate PTSI STA, formal, PV flows using Perl and Tcl programming. Project management. Silicon success.

[01-04] TRANSMETA, SMTS

1.2/1.8GHz Efficeon CPUs: Implement Hypertransport blocks; Register File design. Setup Memory array and noise methodologies. Silicon Success.

[99-01] SUN MICROSYSTEMS, MTS

• UltraSparc V CPU: CAM Register File, Custom logic circuit design
• 1.2GHz UltraSparc III CPU: Port a dozen dynamic adders up to 64-bits. Silicon success.

[97-99] INTEL CORPORATION, DESIGN ENGINEER

• 833MHz Xeon CPU: High speed dynamic circuit design for 2MB L2 cache. Silicon success.
• 600 MHz Pentium III CPU : GTL I/O circuit design. Silicon success.

[94-97] ST MICROELECTRONICS, DESIGN ENGINEER

Design of 32kx8, 128kx8 SRAMs. CAD setup. Design of CMOS RTC. Silicon success.

Education

I was the best student in my class for all seven years of college level education, including four at India's best engineering institution.

[2015-2016]: ONLINE COURSERA COURSES
• Machine Learning
• Machine Learning With Big Data
• Practical Machine Learning
• R Programming
• Statistical Inference
• Reproducible Research

- Regression Models
- Functional Programming Principles in Scala
- Object Oriented Programming in Java
- Financial Markets
- Graph Analytics for Big Data
- Hadoop Platform and Application Framework
- The Data Scientist's Toolbox
- Getting and Cleaning Data
- Exploratory Data Analysis
- Developing Data Products
- Introduction to Big Data
- Introduction to Big Data Analytics
- HTML, CSS and Javascript for Web Developers

[12/2006] U.C. BERKELEY EVENING COURSE

Introduction to Digital Signal Processing Course, UC Berkeley, A Grade

[1989-93] M.ENGG., ELECTRICAL COMM, INDIAN INSTITUTE OF SCIENCE.

First class with distinction. Alumni medal, Best Student, 1990-93

[1986-89] B.SC., PHYSICS, DELHI UNIVERSITY.

First class with distinction, Gold medal, Best Student: 1987/88/89.

References

Available on request, including my recent supervisors.