

# HARIKRISHNAN . JAYAMOHAN

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## EDUCATION

- **M.S (Mechanical Engg)**, Aerospace & Mech. Engg. Dept., Univ. of Southern California (GPA: **3.62**) **2007 - 2009**
- **MBA (Operations Management)**, [SCDL, Pune](#), India. (81%) **2004 - 2006**
- Bachelor of Technology in **Mechanical Engineering**, [RIT Govt. Engineering College](#), India.(74%) **1999 - 2003**

## WORK EXPERIENCE

### [Invitrogen](#)

May 2008-September 2008

#### Intern Advanced Systems, Bio-Devices Instrumentation R&D

- Developed a low cost integrated lab-on-a-chip device compatible with 96 well microplate for biological cell assays
- Performed market research, competitor analysis, examined related patents/technologies as part of product conceptualization/feasibility analysis
- Used Solidworks to design all the components & CosmosFloWorks to analyse the flow pattern for prototypes
- Integrated more than hundred fluidic components including culture wells, valves, pumps on the 13 X 8.5 cm micro-bioreactor chip and fabricated the device using low cost methods
- Filed an internal discovery application at the organization for above device
- Came up with low-cost manufacturing methods, testing methodologies and successfully sold the product viability to top management
- Designed & built a meso-scale device for slide-washing

### [USC Nanotechnology Laboratory](#) & USC Aerospace-Mechanical Engg Dept.

October 2008-May 2009

#### Student Researcher

- Worked on growing Multi-Walled Carbon Nanotubes on a Silicon substrate using PECVD
- Development of micro device for Micro-sensing

### [Infosys Technologies Limited](#)

(3 years, 10 months) From Nov 2003 till July 2007

#### Programmer Analyst/Module Leader-

- Worked on end-to-end product development lifecycle on Wealth Management, Internet Banking & CRM solutions at Finacle Banking Software wing
- Managed projects for marquee clients around world like Deutsche Bank Singapore, ASPIS Greece, GHB Thailand, ANB Middle East
- Responsible for Client Interfacing, System Design, Estimation, Project Management & development

## RESEARCH

- Worked on Micro/meso-scale fluid flows under [Dr. Yen-Lin Han](#) at Department of Aerospace & Mechanical Engineering & USC Nanotechnology Research facility. Current focus on developing a Continuous Trace Gas Preconcentrator

## TECHNOLOGY SKILLS

- **Tools-** SolidWorks, CosmosFloWorks, LabView, MATLAB, Minitab, Molecular Simulation (DSMC)
- **Programming Languages-** C/C++, Java, Visual Basic, Unix

## ADDITIONAL PROFESSIONAL AND EXTRACURRICULAR ACTIVITIES

- Vice President, Viterbi Graduate Students Organisation USC
- Senator, USC Graduate Senate, Univ. of Southern California

- Tutoring minority & economically disadvantaged students as part of [USC MED-COR program](#)
- Involved with non-profit [Iridscent Learning](#) to bring science to public and minority children

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