

Rakesh Kumar Dhull

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- OBJECTIVE** To act as a catalyst in the research and development of MEMS, Microelectronics technology by obtaining a co-op position, starting June 2008.
- EDUCATION** **Master of Science, Electrical Engineering**, Rochester Institute of Technology, Rochester, NY.
GPA: 3.5/4.0 Expected May 2009
- Bachelor of Technology, Information and Communication Technology**, Dhirubhai Ambani Institute of Information and Communication Technology, Gujarat, India. May 2005
- AWARDS** Dean's List Winter 2007, Graduate Scholarship
- COURSES**
- | | |
|-----------------------------------|-----------------------------------|
| MEMS Design | MEMS Fabrication |
| Microfluidic MEMS | MEMS Testing and Evaluation |
| Microelectronics Manufacturing I | Microelectronics Manufacturing II |
| Nanotechnology & Microengineering | Advance Field Effect Transistor |
| Matrix Methods | Random Signal & Noise |
- PROJECTS/LABS**
- Microinjector Printer Head**
Designed and simulated microinjector printer head using Coventor software.
- Thin film SOI MOSFETs**
In-depth study of SOI MOSFETs working and mechanisms like floating substrate effects, hot electron effects, kink effects, short channel effects, quantum mechanical effects.
- Microelectronics Manufacturing I & II Lab**
Fabricated RIT submicron CMOS chips in cleanroom.
- SKILLS**
- Languages:** C, Java, Unix shell scripting
Operating Systems: Windows 98/2000/XP, Red Hat Linux 9, Sun Solaris/Unix
Software: Coventor, Mentor Graphics, L-Edit, MESA, Matlab, MS-Office
Tools: Canon Stepper, Bruce Furnace, LAM 490 Etcher, Varian Ion Implanter, Branson Asher, ASM LPCVD, SSI Track, Nanospec, RCA clean
- EXPERIENCE**
- Rochester Institute of Technology**, Rochester, NY
Research Assistant Dec 2007 - March 2008
Assisted Dr. Yen-Wen Lu in reviewing journal research papers.
- Rochester Institute of Technology, TRiO Student Support Services**, Rochester, NY
Tutor Aug 2007 - March 2008
Successfully underwent tutor training for 5 weeks. Mentored two students in Physics and Math.
- Reliance Communications Ltd**, Chandigarh, India
Lucent 5ESS CDMA Switch Engineer May 2005 - July 2007
- Administered operation, maintenance and optimization of Mobile Switching Centre (MSC).
- Administered Grade of Service and 100 percent availability of Reliance wireless network.
- Developed Unix shell scripts for automating network tasks.
- INTERNSHIP** **Reliance Communications Ltd**, Chennai, India May 2003 - June 2003
Hands on experience with the wireless, wireline and switching part of Reliance Communications network.
- ACTIVITIES** Gold medal in athletic events (100 meters, 200 meters)
Radio Jockey at Radio DA-IICT 105 FM
- LANGUAGES** English, French, Hindi