
Aditi Jatkar

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Objective:

Pursue graduate studies, to further my goal of taking up a career in Bioengineering research and development.

Education:

- High school graduate April 2004 first division.
- Bachelor of Technology from J.B.I.E.T (institution affiliated to Jawaharlal Nehru Technological University). June 2008; first division with distinction.

Computer Skills:

- Proficient in Windows Operating Systems 9x/ME/ XP. Proficient in Microsoft Office Applications.
- Programming Languages: C and C++ (Beginners Level) and MATLAB

Experience:

- May-June 2007: Completed a hospital training program in Medwin Hospitals, Hyderabad, India. Was posted in various departments such as Radiology, Imageology, Radiotherapy, Nuclear Medicine and critical care. Gained knowledge about the operation of various kinds of equipment.
- January-May 2008: Completed a four month work-study project at the "Artificial Limb Centre" a part of the nongovernmental organization "Sweekar Upkaar", Hyderabad, India in my final semester. Developed and tested a working prototype of a transradial prosthetic arm.
- Currently working as a Research Assistant under the guidance of Dr. Stefan Judex, Biomedical Engineering Department, Stony Brook University. Conducting a 12 week study which observes the effect of low magnitude high frequency mechanical stimuli on adipogenesis, lipogenesis and bone morphology. One of the goals of the study is to correlate adipogenesis to diet by varying the types of diets among the sample groups. Responsibilities include subjecting mice to low magnitude mechanical stimuli, monitoring dietary intakes and observing modifications in quantity/quality of bone/fat tissue using Micro Computed tomography imaging and tissue analysis.
- Was part of a 6 week study on the effect of low magnitude high frequency mechanical stimuli on the murine musculoskeletal system.
- Working on a project to develop a whole body vibration plate which would give a spatially uniform acceleration value at applied continuous loads as low as 10 pounds.

Activities:

- Played lead role in a professional theatre production.
- Organized the undergraduate Technical Symposium "Infoquest" every year.
- Coordinated a drive to gather donations and welfare in kind for Indian Troops.
- Gathered funds for and organized visits to local child welfare centers and orphanages.
- Participated in a student campaign to spread awareness on global warming. Conducted seminars in many educational institutions for the same.
- Chief Editor of monthly college newsletter "We Say..." for three years. Managed a database of the finances and distribution figures for the same.
- Worked as the assistant editor and was promoted to the post of features editor and content writer of a Monthly Youth magazine "hydroGen".
- Worked with the marketing and event management teams of "hydroGen"
- Attended seminars and guest lectures on various topics in biomedical engineering.