Interns and Projects

- **Project on Iso-octane reforming** (Decenber, 2012)
  Guide: Prof. Ganesh Kale, Senior Scientist, National Chemical Laboratries, Pune.
  - Analysis of iso-octane as a fuel in production of syngas.
  - Job included study of various process for iso-octane reforming, like Steam reforming, Auto-thermal reforming, Dry reforming and Dry Auto-thermal reforming, and devising the best process.
  - Deduced best operating condition for every reforming process, so that syngas yield has application in Petro-chemical industries and fuel cells.

- **Project on Dynamic Surface Tension** (Spring, 2012)
  Guide: Prof. V.A. Jhuvekar, Chemical Department, IIT Bombay.
  - Studied dynamic surface tension and its properties for Cetyl trimethyl ammonium bromide surfactants using maximum bubble pressure method with sense dyne tensiometer.
  - Also presented it in UG-Symposium-2012.

- **Avanti Fellows** (December, 2011)
  - Worked as an intern in Avanti Fellows, NGO started by IIT alumni.
  - Job included addressing and encouraging students to participate in scholarship exam organized by Aavanti.
  - **Increased** the participation upto **60%** from last year**.**

- **Project Biosynth, IIT Bombay.**
  Guides: Prof. Sanjay Mahajani and Prof. Vinjamur Madhu, Chemical Dept., IIT Bombay.
  - It is a first ever student's initiative **to setup a biodiesel production** at an institute level in India**.** The project is funded by IIT Bombay with an initial investment of 3.5 million rupees.
  - Worked in **Research and Development** Department, on the topic "Employing different ways to reduce acidic contents of Methanol, which is a residue after the formation of Biodiesel, and devising the best method."
  - Actively participated in **commissioning work** of the plant, and carried out the mock runs to identify flaws in the plant and conducted the actual runs of the plant.

- **Training programme and Industrial Visit: Rashtriya Chemicals and Fertilizer**s. **(**Spring, 2011**)**
  Guide: **Prof. Sanjay Mahajani, Chemical Department, IIT Bombay.**
  - Successfully completed the training program on **Sulphuric Acid Technology**
  - Studied and analyzed the whole Sulphuric acid plant and its production technology.
  - Carried out detailed mass and energy balance for Sulphuric Acid production plant.
  - Prepared a detailed report wherein presented the complete working of the Sulphuric Acid production plant.

- **"Snake Game" Project in C++** (Autumn, 2010)
  Guide: Prof. Deepak Phatak, CSE Dept., IIT Bombay
  - Completely imitated the game of "Snakes" and added new features like new levels.
  - Made proficient use of **EZ-Windows** in displaying images.

Position of Responsibility:

- **Organizer** in **Project Biosynth** in the academic year 2010-2011.
  Responsibilities include research and development in production process and troubleshooting technical problems in chemical plant.
- **Coordinator** of **Green Campus Department**, National Service Scheme, IIT Bombay.
- Worked as an organizer for **GRA** (Group of Rural Activities), and **PDP** Departments of NSS, IIT Bombay in the academic year 2010-2011.
- Worked as an C**oordinator** in **Techfest** in **Competition** Department, organized an event "Magneto" with more than 70 teams, in the academic year 2011.

Software Skills:

- C, C++, Matalb, Scilab, HSc-Chemistry, Comsol.
- Photoshop, HTML, SonyVegas.

Extra Curriculum Activities:

- Awarded a **Certificate of appreciation** for the hard work done in **GRA** (Group for Rural Activities) department, **NSS** (National Service Scheme), IIT Bombay, in the academic year 2010.
- Working for **NGOs** who works for social cause. Visited two outskirts villages of Bombay and made a presentation on the current problems, and alternatives and solutions, in the academic year 2010.
- Plays Indian **musical instrument** cymbals.
- Proficient in pencil **sketching**, water color, poster color **painting** and pot painting.