**ACADEMIC ACHIEVEMENTS:**

* **CPI :9.4**
  + - * **Branch change** from Mechanical Engineering to **Electrical Engineering**
      * Was awarded certificate of state wise top 1% in **Chemistry Olympiad** in 2010.
* Awarded **National Talent Search Scholarship**(Top 1000 students in India)(2006-07)

**PROJECTS UNDERTAKEN:**

* **Autonomous Ball Collecting Robot** (Institute technical summer project) July 2012
* Objective: To build Tennis Ball collector using **image processing** techniques.
* Image processing done in **Microsoft Visual studio** using **OpenCV** library.
* Information transfer over **serial communication** on **Arduino** platform**.**
* **Wall following robot:** ( group of three )December 2011
* Made a **wall following** robot which can detect corners and avoid obstacles in the track as a part of winter workshop organised by **Electronics club of IIT Bombay**
* **Learnt: Arduino** **micro controller coding**, **working of sensors**.

**POSITIONS OF RESPONSIBILITY:**

* Working as **co-ordinator** of **“Krittika”** the **Astronomy Club of IIT Bombay** which is a part Students Technical Activities Body (**STAB).**
* Krittika is IIT Bombay’s focal point for **amateur astronomers** and **casual stargazers** alike.
* Organizing **lectures** and **discussion sessions** on various topics in astronomy.
* Responsible for conducting **Night sky observation sessions** for IIT Bombay students.

**SOFTWARE SKILLS**:

Software skills**: Arduino Uno, Eagle, Solid works**, **OpenCV** for image processing , **Microsoft Visual** **Studio**, Adobe Photoshop, Microsoft Office

Languages: **C++, HTML**

**COURSES UNDERTAKEN:**

* **Core:** Electronic devices, Network theory, power electronics\*, analog circuits\*, digital circuits\*, Introduction to electrical systems,analog lab\*, digital circuits lab\*
* **Other departments:** Linear Algebra, Differential Equations, Complex Analysis, **Minor CS**

Computer programming, data structures and algorithms( **\***To be completed by April 2013).

**EXTRA CURRICULAR ACTIVITIES:**

* Made a remote controlled car in competition “Tech One” organised by Robotics Club of IIT Bombay.
* Contributed for Prod making in Performing Arts Festival (**PAF 2012**) for Hostel 10.
* Awarded **Best Student of School** (R.R.Vidyalya, Jalgaon)for the year (2008-09).
* Active member of **Maharashtra Scout and Guide** for 3 years (2006-09).

**DECLARATION:**

I hereby declare that the information given above is true to the best of my knowledge.

Sukanya Vijaysing Patil.