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| Address :- Building no. 25/800,Tagore nagar, **AKSHAY BHOGILAL PANCHAL**  Vikhroli-(E), Mumbai – 400083. Contact No. :- +919769532796 D.O.B. :- 18th November 1994 Email id :- [aksypanchal18@gmail.com](mailto:aksypanchal18@gmail.com)  [akshay.bp@somaiya.edu](mailto:akshay.bp@somaiya.edu) |

**ACADEMIC QUALIFICATION**

* **Engineering Degree Qualification** (2016):-

Discipline: Mechanical Engineering

Institute: K. J. Somaiya College of Engineering, Vidyavihar, (Autonomous)

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Examination | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 7 | Semester 8 | **Aggregate** |
| CGPA | 8.04 | 8.32 | 6.89 | 7.75 | 8.63 | 8.6 | **8.03** |

* **Diploma Qualification** (2013):-

Discipline: Mechanical Engineering

Institute: K. J. Somaiya Polytechnic, Vidyavihar, (Autonomous) **Aggregate: 83.88%**

* **S.S.C. Examination** (2010):-

Institute: V. S. Gurukul **Technical** High School, Ghatkopar-(E) **Aggregate: 91.82%**

**ACADEMIC ACHIEVEMENTS**

* **Projects**:-
* **‘Value Stream Mapping’(VSM) of ACB flow line at (Larsen & Toubro)’ :** (B.E.)

Description: Value stream mapping is a [lean](https://en.wikipedia.org/wiki/Lean_product_development)-management method for analyzing the current state and designing a future state for the series of events that take a product or service from its beginning through to the customer.

**My role**: In this project was to map out whole assembly line on computer and then to check & analyses the problem at each station of assembly line and make future map according to implementations required. I learned that how in such a big company have maintain their quality in terms of work & efficiency.

**Effective Result**: From this concept the increase rate of production was 73 units per month.

* **‘Hydraulic Pipe Bending machine’ :** (Diploma TE)

Description: It is a compact hydraulic pipe bender which is used for bending medium size pipes which is operated by hand using very less pressure in medium scale industry.

**My role**: It is to design each parts of this machine and make it in AutoCAD including details and assembly. I thoroughly designed each parts of machine in details that’s also the part of my interests. Then we manufactured the machine in which I learned that how each machining process required in different conditions and in assembly,etc.

* **‘Newtonian Telescope’**: (Currently Working)

Description: The Newtonian telescope is a type of [reflecting telescope](https://en.wikipedia.org/wiki/Reflecting_telescope), using a [concave](https://en.wikipedia.org/wiki/Curved_mirror#Concave_mirrors) [primary mirror](https://en.wikipedia.org/wiki/Primary_mirror) and a flat diagonal secondary mirror. The Newtonian telescope's simple design makes it very popular with [amateur telescope makers](https://en.wikipedia.org/wiki/Amateur_telescope_maker). In which I have thoroughly designed each & every parts of the telescope including mirrors according to my specifications and personal use. Now I am searching the parts in market according to standards and then I will assemble it.

* **Paper Presentations**:- Presented paper on ‘**Future of energy - Hydrogen**’ in conference on Alternative

Energy to make **Digital India**, Prakalpa 2016, held at K. J. Somaiya College of engineering.

* **Internships** :-
* From ‘Tata Interactive System’ as a ‘Subject Matter Expert – Mechanical’. (15 days)

Role:- To make mechanical subject related technical content for online courses for USA colleges.

Major topics was on ‘Material Technology’ and ‘Electronics’.

* From ‘ACZET Pvt Ltd (Citizen Scale)’ as a ‘Service Engineer - Mechanical’. (1 Month)

Role:- Troubleshooting of XRF machine, Laser marking machine, Weighing balance.

**EXTRA CERTIFICATION COURSES**

* ‘Associate member of Institutions of Engineers (AMIE) India.
* ‘Oil & Gas Industry operations and Market’ by Duke University’.
* ‘Astrotech: Technology behind the Astronomical Discovery’ by ‘University of Edinburgh (UK)’.
* ‘Astrobiology and the Search for Extraterrestrial Life’ by ‘University of Edinburgh (UK)’.
* ‘From the Big Bang to Dark Energy’ by ‘University of Tokyo’.
* ‘Confronting the Big Questions: Highlights of Modern Astronomy’ by ‘University of Rochester’.
* ‘[Analyzing the Universe](https://www.coursera.org/course/analyze)’ by ‘Rutgers the State University of New Jersey’.

**SKILLS**

* **Basics of Piping. Basics of process equipments & design.**
* Good knowledge of **AutoCAD, Inventor, CATIA, ANSYS**, etc. Good understanding of 2D and 3D Drawing.
* Result oriented, having qualities such as customer orientation, Leadership, ability to learn, conceptual ability, analytical skills, good interpersonal relationship.

**PERSONAL DETAILS**

* **Family Background:-**

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| * **Relationship** | * **Occupation** |
| * Father | * Draughtsman – Mechanical at Flexclean India Pvt. Ltd., Bhandup |
| * Mother | * House wife |
| * 1st Elder Brother - Hardik | * Design Engineer – Mechanical at Koch-Glitsch, Chembur |
| * 2nd Elder Brother - Chirag | Design Engineer – Electrical at Pharmadeep Turnkey Consultant & Engineers Pvt. Ltd., Thane |

* **Personal Details:-**

1)Passport :- Yes / Date of Expiry :- 10-May-2026

2) Hobbies:- Reading, learning, Science (Especially in Astronomy), playing volleyball and table tennis.

3) Language Known:- English, Gujarati, Hindi and Marathi.

4) Willing to Travel**:-** Yes

**Akshay B. Panchal**