

Shristi Bothra

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Education

1. B.Sc. (Hons) in Physics Pandit Deendayal Petroleum University (PDPU) Gandhinagar, Gujarat. Current Grade Point Assessment (CPI): 9.49/10 Rank: 1	2016-2020
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Skills

- Excellent communication skills (verbal, listening, writing) while interacting with customers, co-workers, and supervisors.
- Friendly, approachable, and able to effectively communicate the ideas.
- Adept at managing multiple, diverse tasks simultaneously; work well under pressure.
- Experienced in collecting, interpreting and analyzing data for various projects I worked on during my under graduation and preparing reports that included graphical, numerical, diagrams, maps and tabular forms of information.
- Proficient in understanding the quantitative and qualitative aspects of a product and implementing new ideas whenever required.

Programming languages	C, SOLPS-CODE, Python
Tools and Technologies	MS OFFICE, SCILAB, LINUX-MINT, NX-DESIGN, MATLAB, Anaconda

Experience

1. Support Executive <i>Company-Amlaanin Technologies</i>	Jan-Dec 2019
<ul style="list-style-type: none">• I identified various software related queries, further analyzing them and trying to solve it.• Apart from that, I also handled documentation for the same.	
2. Teaching Assistant <i>Supervisor-Dr. Brijesh Tripathi [Brijesh.Tripathi@sse.pdpu.ac.in]</i>	Jan-May 2019
<ul style="list-style-type: none">• I worked as a teaching assistant for the course of Material Sciences for 6 months.• My work covered to organize the reports, accounts and documents for the subject.• Some of my work also included to supervise the lab-experiments designed for second year students.	
3. Amlaanin Technologies <i>Supervisor – Dr. Manoj Kumar [Manoj.Kumar@sse.pdpu.ac.in]</i>	May-July 2018
<ul style="list-style-type: none">• I worked under the Management team during the summer of my second year and worked on the subject of project coordination and management.• Some of the core contents I worked on were handling records, coordinating audits and quality analysis.	
4. Rural Internship at Sembalpani, Gujarat <i>Supervisors – Dr. Rohit Srivastava and Dr. Satyam Shinde [Rohit.Srivastava@sls.pdpu.ac.in]</i>	Dec-2016
<ul style="list-style-type: none">• I did this internship in my first semester from Pandit Deendayal Petroleum University and worked on to strengthen the basic concepts of different fields of sciences.	

Projects and Papers

1. Study of Radiation Losses for SST-1 Tokamak-ITER_INDIA <i>Supervisor – Dr. Anil Kumar Tyagi-Senior Officer Scientist at ITER-IPR-INDIA [anil.tyagi@iter-india.org]</i>	Sept 2019 - Present
<ul style="list-style-type: none">• The project consists of simulations of Carbon and Neon impurities in plasma to study the radiation losses.• The simulations and analysis are done using the Linux mint, SOLPS-CODE and Sci-lab software.	

- The project also aims to provide a solution to handle high heat flux at target plates of SSt-1 Tokamak.

2. Motorised Blinds and Smart Windows

May 2019 - Present

Supervisor - Dr. Manoj Kumar-Associate Professor at Pandit Deendayal Petroleum University [Manoj.Kumar@sse.pdpu.ac.in]

- We worked on to develop multifunctional window. It is a microprocessor controlled motorized window system, an ecofriendly device establishing a healthy connection between the user and the environment.
- I received funding from Dr. Manoj Kumar in order to develop the product.
- My work in the project was to control the positive airflow fan operating on solar power, which is used with a sequence of filters like micro filters, porous activated charcoal foam filter, and activated carbon beads, to remove impurities from the air and also acts as a mosquito repellent.

3. Anti-Pollution Mask

Nov 2018 - May 2019

Supervisor - Dr. Brijesh Tripathi, Assistant Professor at Pandit Deendayal Petroleum University [Brijesh.Tripathi@sse.pdpu.ac.in]

- We developed a mask that reduces the amount of airborne particulate matter along with the diesel and gasoline pollutants that a person inhales while doing various activities.
- Initially I used the NX Designers software to develop a 3D model of the product, and upon acceptance of the idea we worked on to develop the final product.
- The product developed is the major product sold by the company 'Amlaanin Technologies'.

4. Energy Efficient Houses: A Solution to local warming in major cities caused by Air conditioning- Paper Presentation

Supervisor - Dr. Rohit Srivastava, Associate Professor at Pandit Deendayal Petroleum University [Rohit.Srivastava@sls.pdpu.ac.in]

- I presented a paper on the above topic at International Conference on Energy Future and Societal Perspectives

Achievements

- I was offered funding of INR 50,000 from the senior professor of Material Sciences in order to support my project on Smart Windows.
- Completed a course on NX Design software, C-Programming and Linux with an 'outstanding' grade.
- My academic rank is on the top of the Bachelors of Science (Hons.) program.
- I will receive a 6 months project completion certificate from ITER(International Thermonuclear Experimental Reactor)-INDIA
- I was appointed as my class representative on the basis of my communication skills, leadership, punctuality and time management.

Positions of Responsibility

- I was given the responsibility of 6 months teaching assistant for the course of Material Science.
- I was a core Volunteer in the XXXI-Gujarat Science Congress held at Pandit Deendayal Petroleum University.
- I volunteered in the fest of School of Petroleum Management-Pandit Deendayal Petroleum University.
- I am an active member of the literature club at my university.
- I volunteered at a bi-annual cricket tournament held at my university.
- I hosted many cultural as well as social events at my university.
- I served at a social event serving homeless dogs by fulfilling the responsibility of nursing, cleaning and socializing with the abandoned dogs.

Interests and Hobbies

- Programming languages and its applications.
- Worked with databases such as Linux Mint, Mongo DB and SQL
- Ideas for sustainable development: A fervent supporter of the idea of resource conservation and would like to contribute to the same at some level.
- Reading, particularly Science Fiction and Mystery novels.
- Modelling-Participated in Amethyst 3.0-a national level model hunt competition at Pandit Deendayal Petroleum University.
- Painting and Sketching- Participated in Intermediate Elementary Drawing exam.
- Swimming: A trained swimmer.