

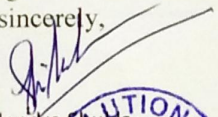
Letter Of Appreciation

This is to certify that **Ms. Aditi Bhoir** of **Sardar Patel College of Engineering, Andheri** worked as an intern with our company "**Apsis Solutions**", for a period of Four month, from 1th Dec 2020 till 1st March 2021.

During this tenure, she worked on various real time projects and her performance was Excellent. She also proved her proficiency in developing 3D models and rendering as per our Design Team's requirements, she also had the knack of understanding the problem quickly and she was able to solve them with 'out-of-the-box' solutions.

Her tenure with us has been one of mutual satisfaction and we would like to wish her all the best in her future endeavours.

Thanking You
Yours sincerely,



Mr. Shailendra Shukla
General Manager
Apsis Solutions



Date: 29th July 2021

TO WHOMSOEVER IT MAY CONCERN

This is to state that Mr **Sarang Birwadkar** was an intern at NanoSniff Technologies Private Limited from **01st June 2021 to 26th July 2021**.

NanoSniff Technologies is a Product R&D start-up at IIT Bombay working in the area of Micro Electro Mechanical Systems (MEMS) and Nanotechnology. We fabricate Sensors, and develop associated instruments, for Research Labs, Engineering Institutes and Industries.

Mr Sarang Birwadkar worked on "**Design of enclosure for a microheater based mass flow meter chip**". His work was found to bring value to the team NanoSniff.

During this period of his internship, we found Sarang to be dedicated and a quick learner. Moreover, Sarang's sociable and pleasant personality ensured that he bonded well with the rest of the team during his stint with us. We wish him well for his future endeavors.

A handwritten signature in blue ink, appearing to read "N. K. Kulkarni".

Human Resources

NanoSniff Technologies Pvt. Ltd.



Name- Aditi Arun Bhoir

Internship at -APSYS Solutions

Role – Design Engineer

Duration- 4 months (1st December to 1st March)

I applied for many internships on Intern Shala but after 10-15 rejection I finally got selected for the 1st round of recruitment at APSIS Solutions. After the selection we had a meeting with the owner of the APSIS Solutions which is start-up based company who works in the field of research and product development at Karnataka. I had to develop a design of a UV Steriliser. Sir briefed us about what qualities and features should the design have. The design should had to developed in solid works software and rendered on the Autodesk Fusion 360. After the submission I got selected for the online internship. (fig 1 and 2 are the initials designs of the steriliser I had submitted in the beginning).



Fig. 1

UV Steriliser



Fig 2.

UV Steriliser

I continued to work on UV steriliser on a more advanced level. I worked on various parts of the steriliser like fan for in and out of the air, tube light for the sterilisation, cage for not allowing the light to go beyond the wall, ballast, doors and handles. The focus was to design a equipment which is technologically effective as well as aesthetically appealing. Many designs of the machine were shortlisted and design mentioned in fig 3 and 4 is finalised. Many materials and colours were tried in the rendering to find the most attractive design.



Fig 3



Fig 4

My next assignment was to work on the design of smart inhaler. Many products were already available in the market. But the main requirement was to design a product which very attractive aesthetically. I went through many existing designs and collected data from them. I understood the interior of the smart inhaler and how does it work. Finally I came up with the below mentioned design (fig 5). Further modifications were made to this design.

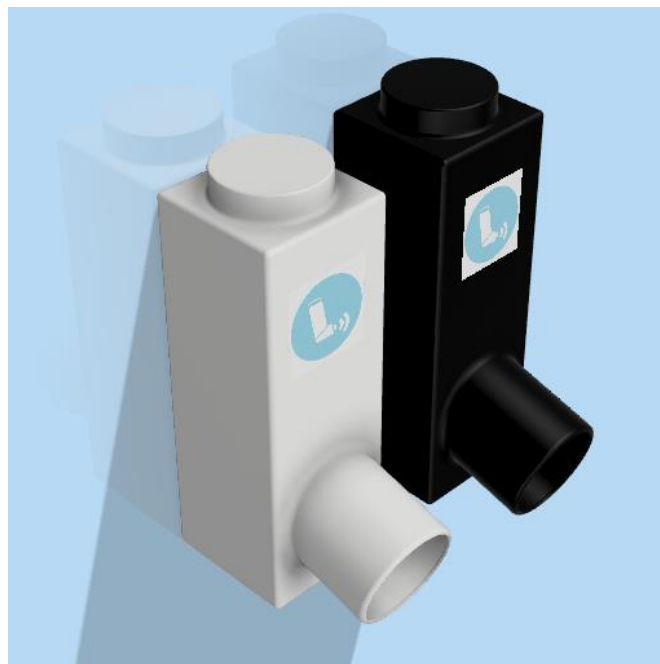


Fig 5

Smart Inhaler

My next assignment was to design a sanitary pad incinerator. This design was to build on a very basic level as no advanced designs are already present in the market. This device was used for the instant disposal of the sanitary pads in a

more hygienic and easy way. The design of sanitary incinerator is given in figure 6.



Fig 6

Sanitary Pad Incinerator

In this way I have worked on the many industrial products. From discussing industrial and customer requirements to actual creation of model, I have worked on design, simplification, visual aesthetics of these products. I got to learn fusion 360 during this internship. I used to get weekly assignments related to designing, rendering and visual appeal of the products. In between these main assignments, I have worked on many small assignments to design small parts of the products for 3D printing. I enjoyed these 4 months of internship at APSIS Solutions.

Key learnings- I got to know about the adaptations to be done in order to meet the demands of the customers. I got to know Fusion 360 thoroughly. I worked on skills to become creative.

Challenges – This was my first professional experience so it was difficult firstly to work under my guide and with other colleagues. But eventually I got used to it.