

Shenoy Innovation Studio (SIS)

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SIS's attention is directed towards disruptive as well as sustaining innovation for development of new and futuristic products and services that will delight the users. The methodologies developed in the studio covers large industries in private and public sector, small scale industries, government sector and craft sector. It intertwines the education system with the industry in a mutually beneficial collaboration. This helps to increase levels of excellence and relevance in learning,

teaching and research. At the same time more refreshing and out-of-the-box outlook for the industry can be generated by the academia.



Z-Line Petrol Pump

B. K. Chakravarthy

The bulky lower half combined with a slender top portion ensured minimal damage of the kind to which earlier designs of fuel dispensers had been prone. The hydraulics were housed in the lower half while the electronics was cased in the upper half. High accuracy in manufacturing and a notable reduction of cost ensured that the Z-line quickly bested its competitors. The unusual design brought down the amount of sheet metal used by almost forty per cent. The modular design with a card slot system was designed to be maintenance-friendly. Likewise, the

brackets were especially designed for ease of detachment and repair. As the electronics were placed above the stipulated minimum of 1.2 metres, the Z-line dispenser did not require a flame-proof junction box. The signals passed smoothly through the angular column. Dynamic and forward-looking in appearance, and gesturing towards a future of radical innovation, the Z-line became a key icon of Indian roadways in those times.



Open Design School (MHRD)

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The objective of the Open Design Schools (ODS) is to extend the reach of Design Innovation education through a combination of online courses and blended learning. Hence it is a combination of MOOCs and workshop practice. The aims of the Open Design School are to bring design education to a large number of aspirants and to provide them with hands-on training in workshops all over the country under expert

mentors. This experiential learning is the key to Design Innovation Pedagogy. ODS will also train mentors / design teachers across the country, by leveraging the Design Innovation Centers (DICs) and the NDIN network.

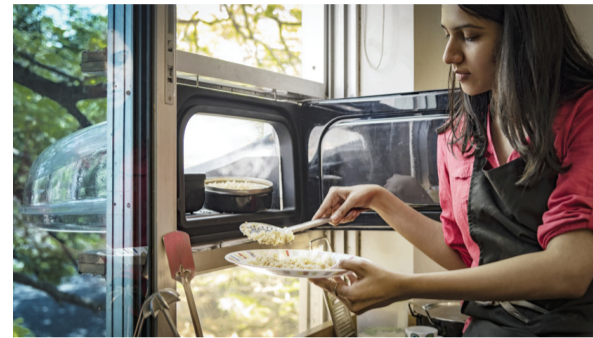


Window Mounted Solar

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A thorough understanding of the specific challenges faced by users proved to be a turning point in this case. This, along with an in-depth understanding of materials, led to fruitful insights on what features and the best materials needed to be incorporated in designing a window mounted solar oven. With a deceptively simple design, it eliminates the need for a bulky body to make it high-tech, user-centric and extremely efficient along with making it spatially-indifferent. Some of its benefits are: It preserves nutrition, slow cooking means tastier food, cheaper than the costly LPG fuel, minimizes danger -- no electricity or flame needed and finally, but the

most obvious benefit being that it saves fuel. The oven comes with two aluminum coated steel containers to cook the food in. Additionally, its curved body gives it a neat aesthetic touch.



Low Cost Vein Tracer for blood extraction

B. K. Chakravarthy

The Vein tracer has been designed as a simple light-weight device that humanizes a simple technology (NIR Spectroscopy), helping medical practitioners easily identify the veins during vein-puncture procedures, reducing patient's trauma. Difficulty in locating the veins —in children, darker skinned and obese people— leads to unnecessary multiple needle pricks that cause both trauma and injury. NIR Spectroscopy is an existing technology can easily be applied

to solve the problem especially. (The LED lights are deflected by the deoxygenated blood —giving a clear silhouette of veins). However, so that this technology can be actually used by the masses— in busy and frugally run blood camps, blood banks, small and medium sized hospitals.

