7TH INTER IIT TECH MEET 2018
IIT BOMBAY

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Diamond Jubilee 2018
एक साथ प्रगति की ओर
Achieving Excellence Together
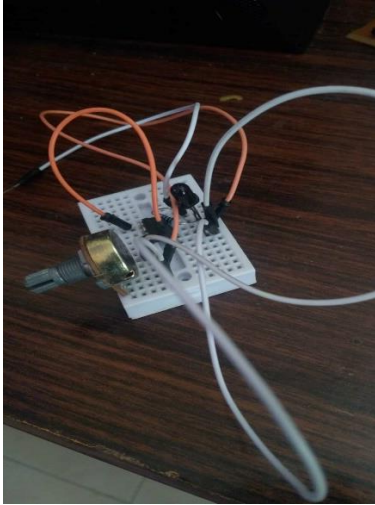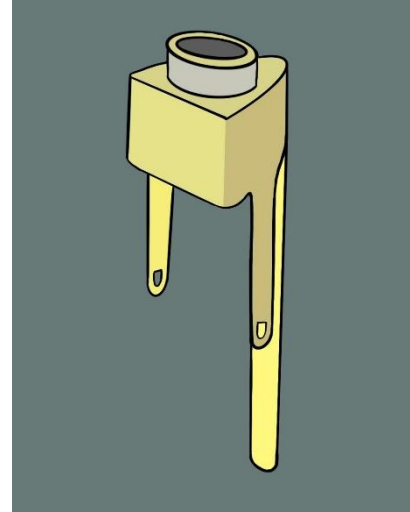
Smart Tap

Team: Mrinal Kanti Mahato & Anant Ajaideep
Guided by: Abhay Pratap Singh Rathore

Circuit board	Initial Sketch

About

Smart Tap is a snap on device which slides on a tap and make the everyday task of filling the water bottles even more easy and efficient. We wanted to make a device which helps in some day-to-day task, filling up water bottles is a very basic thing which we do every day. A task this simple, basic and frequent should involve the least number steps as can be, Smart Tap helps in achieving this. We wanted Smart Tap to slide on a tap and when a bottle will be placed under it, it should sense its presence and turn on the water supply and then when it gets filled it should recognise it and cut off the water supply.
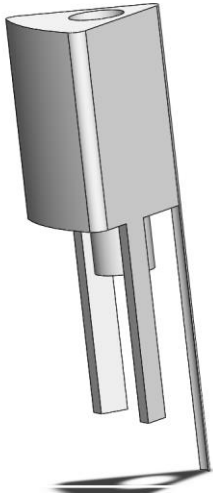
We a team of two, Mrinal Kanti Mahato from Electrical Department and Anant Ajaideep from Design Department, combined our technical and design knowledge to make this project under the guidance of Abhay Pratap Singh Rathore.
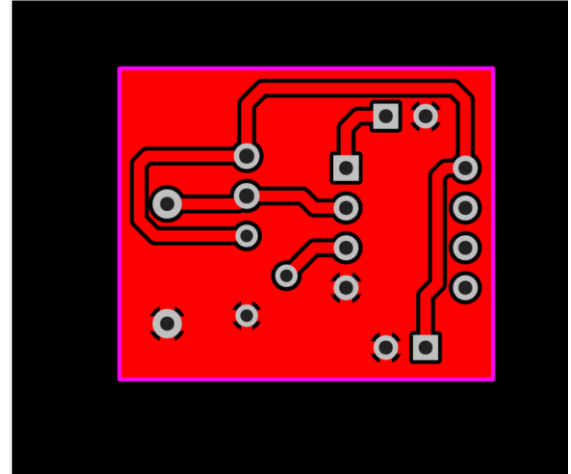
Model developed in Solidworks	Developed sensor circuit

Impact

We were successful in developing and full-filling both the design and technical requirements of this project. While working through this project we had to do a lot of research and learned quite a lot about satisfying ergonomic needs of a product and developing electronics solving a certain problem. Through this project we also got an opportunity to improve our skill set of Solidworks and a chance to realise the amount of detail and planning which goes in developing a product.

Contact

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