



STATE

Posture correcting chair

Kulsoom Rizavi, Tarun Anand, Sunvi Agarwal
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Chandigarh

Three students have independently conceived the idea to have a chair with sensors at appropriate places, which will alert the user if s/he is sitting in a wrong posture.



Young Kulsoom thought that while it may not be possible to be reminded again and again by someone for not sitting properly, this task can be done by the chair itself. She likes gardening, arts and crafts, writing stories and poems. Infact she plans to get her own book published soon and grow up to become an entrepreneur selling hi-tech machines in an automated shop. She has an elder sister who loves her much and a younger sister whom she loves the most. Kulsoom is now studying in class eight and likes participating in many science and art contest.

Tarun wants to have such a chair to escape his mother's scolding. He has an interest in electronics and likes to know about new and emerging technologies apart from playing cricket in his free time. Both of them conceived this idea after being regularly scolded by their mothers for using a bad posture while sitting. Tarun has been preparing for engineering entrance examinations after completing his class 12.

Sunvi felt the need for such a chair realising that she often reclined or assumed bad posture while watching television. She

adds that when the viewer would bend forward or take ergonomically bad posture, the sensors will detect the motion and put the TV on standby. Hence until one sits properly, TV would not switch on. Sunvi loves to write- articles, stories and poems. She participates in debates, panel discussions, plays badminton and is now learning photography. She wants to take up such a job when she grows up which does not restrict her to a table and a chair; Indian armed services is one of her choices. Sunvi is presently pursuing Bachelor in Management Studies from St. Xavier College, Mumbai. She had submitted this idea for NIF's IGNITE competition while she was in school and won an award as well along with the other two children.

STMicroelectronics, a leading manufacturer of semiconductors globally, has engaged with Honey Bee Network and NIF to help develop improved prototypes of grassroots technologies. Engineers of this firm worked on two technologies (Posture correcting chair and Helmet controlled ignition system in two wheelers). A prototype of Posture correcting chair, was developed by the STMicroelectronics team for which



suitable modifications are being discussed to explore the possibility of integrating this chair in tractors with the help of John Deere, leading agricultural, construction, forestry machinery manufacturing company in the world.