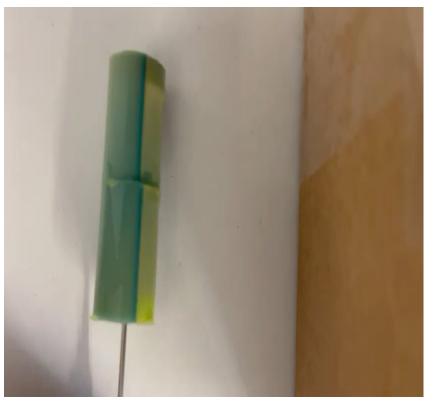
Fabrication of elastomer cylindrical thin shells for soft robotics Mohammed Sbai, Yang Yi, Katia Bertoldi University of Nebraska Lincoln, Harvard University NSF DMR-2011754

We are fabricating a very thin shells cylinders made of Silicone to make a rotor, a climbing robot or a swimming robots that are made completely from soft materials.

These robots work through deformation, by pumping air in and out of the made cylinders



A video shows how the silicone cylinders can deform differently because of thickness difference

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I'm Mohammed Sbai, senior mechanical engineering major at the University of Nebraska Lincoln.

This summer I been able to learn new skills, and for the first time I had the chance to work on soft robotics projects which expanded my robotics research interests.



Mohammed and Dr. Yang working on Fabricating elastomer cylindrical thin shells