

Wireless Controllable 3D-printed Robot Hands

Status: Filled

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Project Description

We are quickly entering an era in which robots will be an essential part of our lives, and in which human-robot interaction will be an essential happening. With today's cutting-edge technology, however, human-robot interactions can be uncomfortable yet by means of rigid machines and robots. In an effort to re-design robotics I like students to develop stretching 3D printed soft robotic hand that use pneumatic actuators and pressure sensors embedded in the robot hand for the response to human pressure. Students will learn about designing of 3D printed structures with appropriate actuation and sensing system embedment in this capstone project.