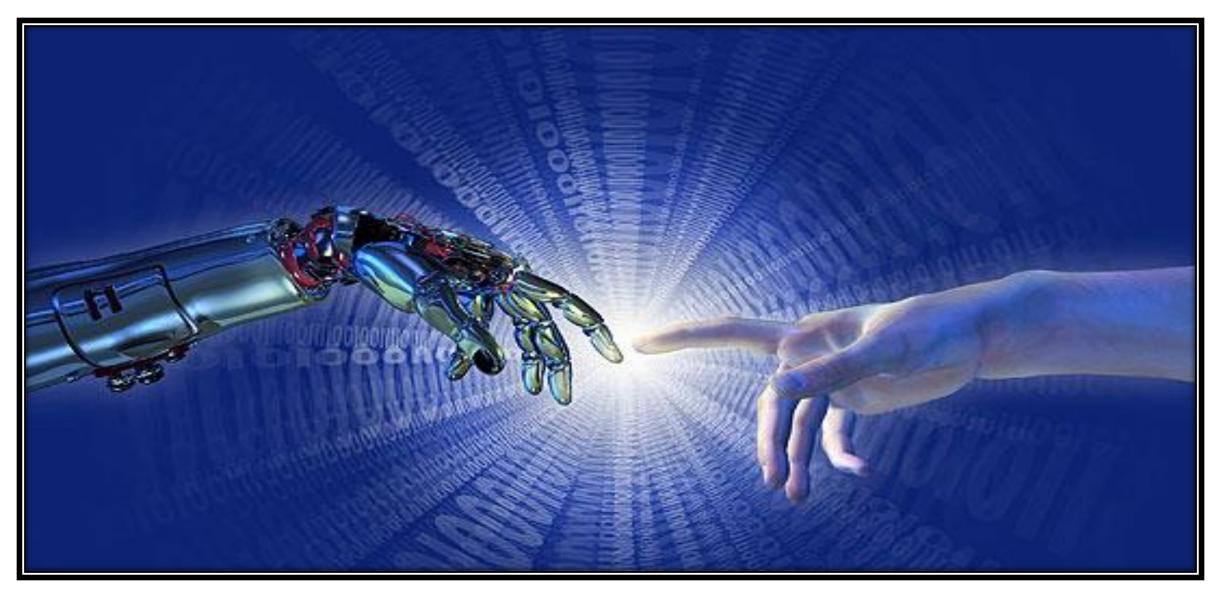


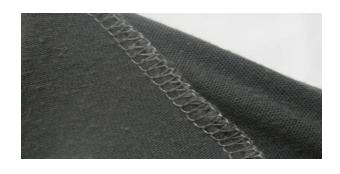
THE AGE OF DISRUPTION



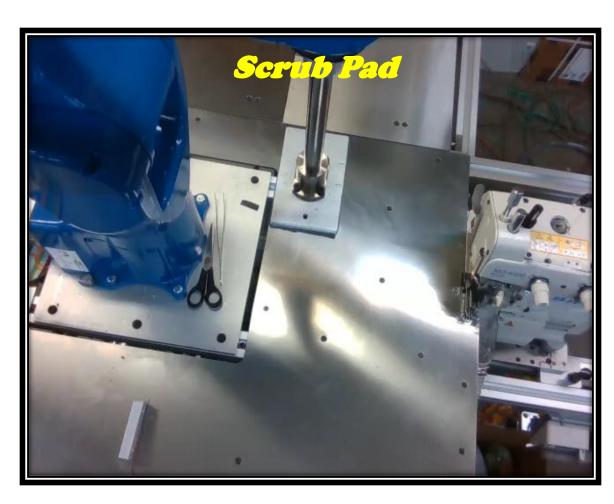
ROBOT for T-SHIRT Shoulders and Side Seams







ROBOTS Integrated into SEWING





Automation to Manufacture Beanies



Beanie, Feed Cut & Turn





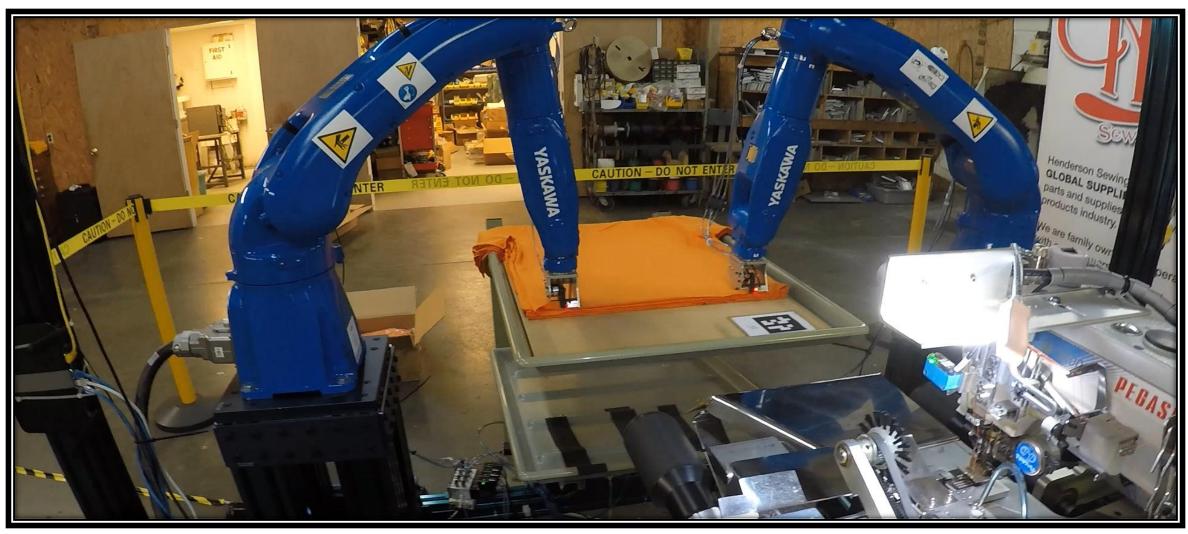
COLLABORATIVE

KOLLAMOLUA



OMRON MOBILE ROBOT

ROBOTIC LOADING T-SHIRT Bottom Hem





Say Hello to Digital Thread Dyeing



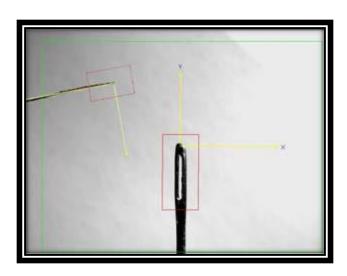


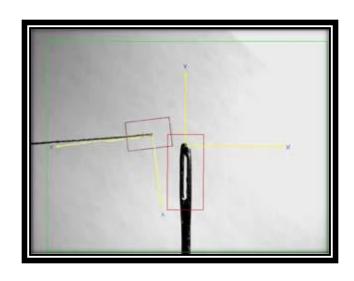


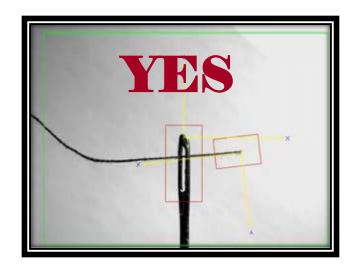


VISION SYSTEMS INTEGRATION INTO SEWING

Can Vision be Used to Thread a Needle?

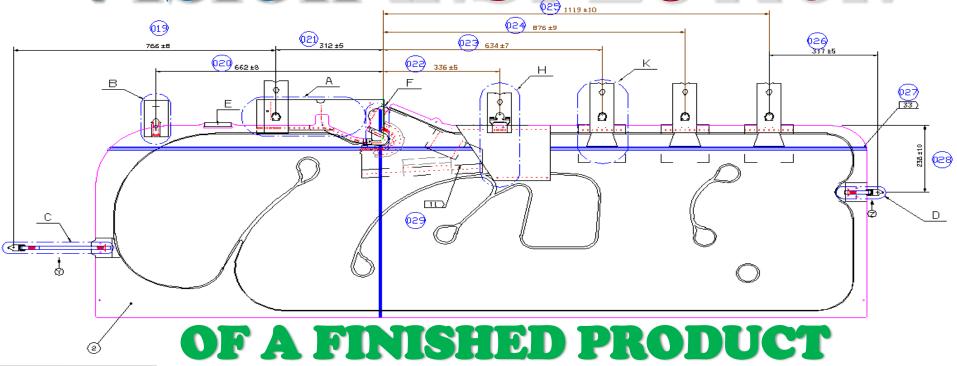






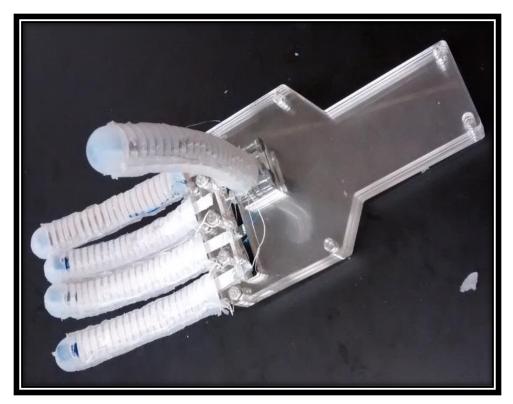
Visual Servoing – System Captures Multiple Images and determines the relative distance between the part and the target. A series of incremental motion commands are executed until vision confirms the task is accomplished

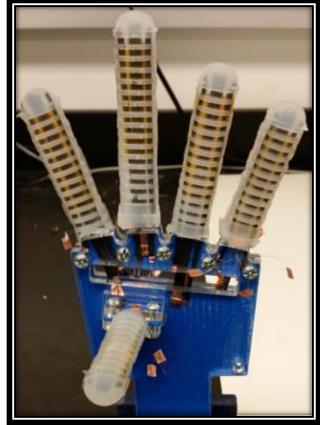
Vision INSPECTION

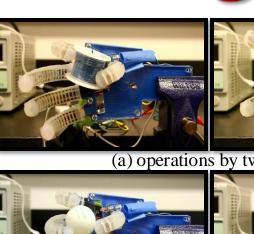




Haptic Camera Technology





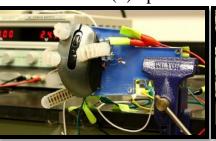


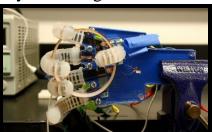


(a) operations by two fingers



(b) operations by three fingers





(c) operations by four fingers



(d) operations by five fingers

ALL Things Internet-Connected...Devices and Machines Working Together to Optimize Production and Efficiency



THANK YOUR ATTENTION

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