

# Makr Shagr: a robotic creation

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Carlo Ratti's "Makr Shagr" allows people to become their own virtual barman.



In an attempt to explore a third Industrial Revolution, Carlo Ratti designed a robotic bartender for this year's **Milan Furniture Fair**.

Italian designer Carlo Ratti of **MIT Senseable City Lab** designed a system that allows people to invent their own drink recipes, while digitally controlled machines turn these recipes into reality.

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Digital technologies are changing the interaction between people and products, says Ratti.

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“Makr Shagr” is designed to increase interaction between people through sharing experiences and options while their drinks are being mixed. “It aims to share a new potential – drink-make-enjoy with everyone in just a few minutes”, says Ratti.

Users download an app onto their handheld devices. The app then allows each user to transform into a virtual barman through mixing ingredients and quantities dependent on what they would like to drink. The drink is hereafter crafted by three robotic arms, whose movements reproduce every action of a barman – from the shaking of a Martini to the muddling of a Mojito.