EVOLVING CITYSCAPES

Populations are rising and technologies are spreading; we navigate a changing urban fabric. Autonomous and intelligent infrastructures. Complex logistics networks. Dynamic social landscapes. How will new visions of the connected city impact our everyday lives?

Autonomous Delivery Robot

TU Delft

Nyckle Sijtsma

As retail continues to shift towards online shopping, increasing parcel deliveries place stress on logistical networks, especially in metropolitan areas. This project envisions a connected and automated network of delivery robots as a part of a potential solution. Developed in a collaboration between TU Delft and an industry partner, the Autonomous Delivery Robot features modular containers with different drawers, which contain parcels for delivery. The drawers are individually locked with NFC enabled locks that can be opened by either phone or by traditional access cards. During off-peak hours, robots can also wait for a while until a recipient is home.

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Blip: A Momentary Deviation

We tend to move through our increasingly scheduled days without taking a moment to reflect or engage in activities that bring us happiness. What if we could be pulled into momentary happiness in an unexpected setting, experiencing a small, temporary deviation from our daily flow to be fully engaged and present for a moment? Engaging in this type of momentary happiness could lead to improved subjective well-being. In Blip: A Momentary Deviation, a series of hanging balls each have their own personality that can be explored through movement. Familiarity, connection, nostalgia, surprise, creation, reflection, beauty, and simplicity are our ingredients for unexpected happiness, what are yours?

Journalist of the Future City

UTwente

Anouk Geenen
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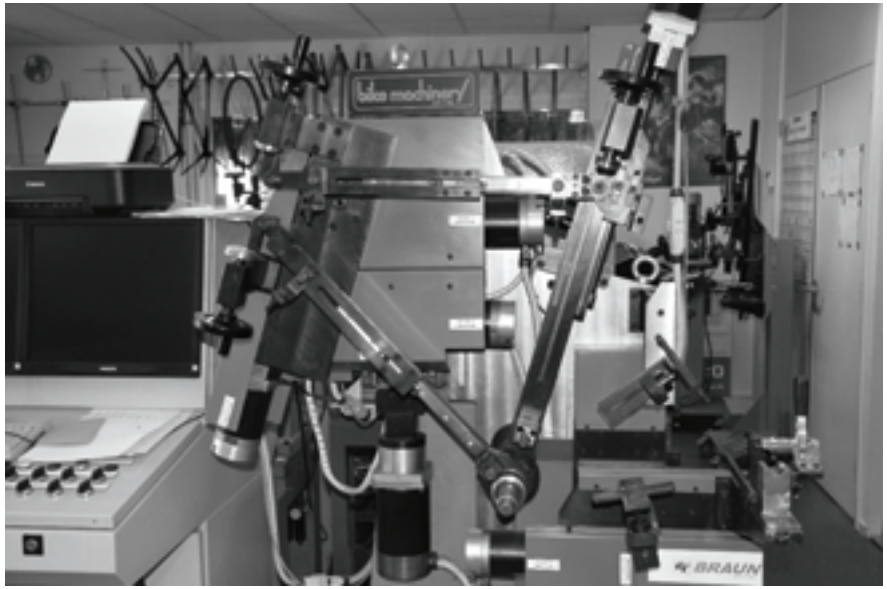
This collaborative project is an imagination game for triggering thought-provoking ideas on how urban life might change as a result of the introduction of a new technology in the city. Players each draw four cards from the card deck and then create a provocative short story based on the content of the cards. This exhibition is in part a design research experiment. The results will inform continued research on how to equip people for future-making activities, and how citizens anticipate value changes in the smart city context. Visitors are invited to play.

HONE

TU Delft Bobby Merlijn Adriaansens



In the competitive world of road race cycling, where winning may come down to a 1 percent advantage in power or speed, having a frame that is lighter and more aerodynamic grants a significant competitive advantage. Riders tend to be biased against metal-alloy frames, mostly because they assume they will be heavier than carbon options. To overcome this bias, a new bicycle frame was designed with topology optimization software, a special method that reduces the weight of a design by taking into account material properties and a fixed set of loads. However, the resulting design must also not appear fragile in the user's subjective evaluation. With strategic edits to the algorithmic design recommendations, the HONE bicycle frame balances this tension.