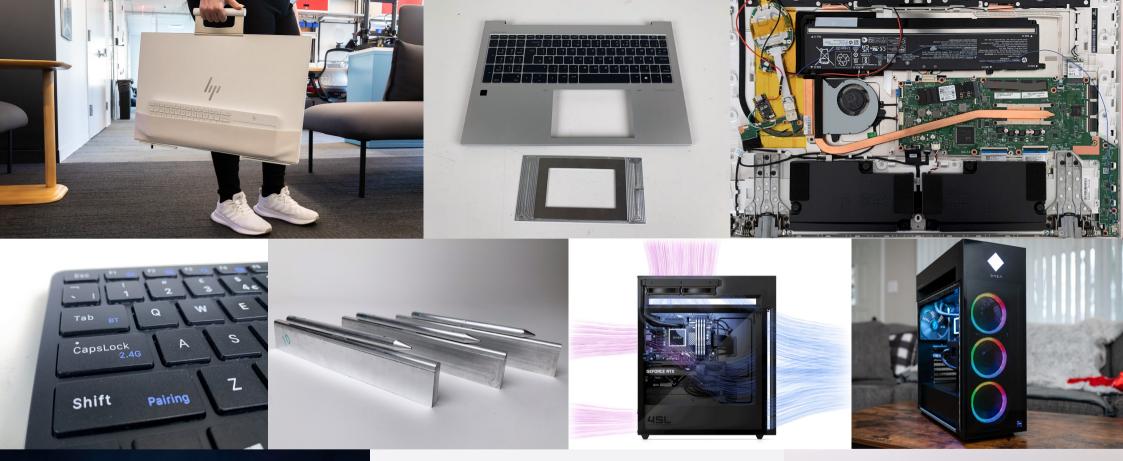
DESIGN ENGINEERING PORTFOLIO

DYLAN BOGOD





Front-end innovation for consumer electronics giant HP, forms much of my work at Native. To preserve confidentiality, this collage mixes current products representative of my work, alongside snapshots of unreleased projects.



CONSUMER ELECTRONICS (HP)



One Pro.

A cost-down redesign of the global I developed novel hinge mechanism to best-selling POS system, HP Engage increase range of tilt, replacing 3 existing SKUs with single option.

A novel PC design pushing the limits of small form factor gaming. System improved aesthetic without compromising airflow.

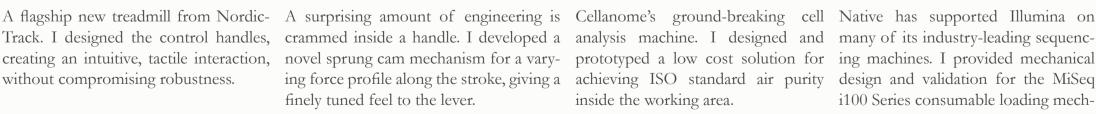
A game-changing 3D video-conferencing collaboration between Google design innovation allowed for an & HP. I worked on build strategies and mechanical design intent throughout the product development process.



OTHER NATIVE PROJECTS



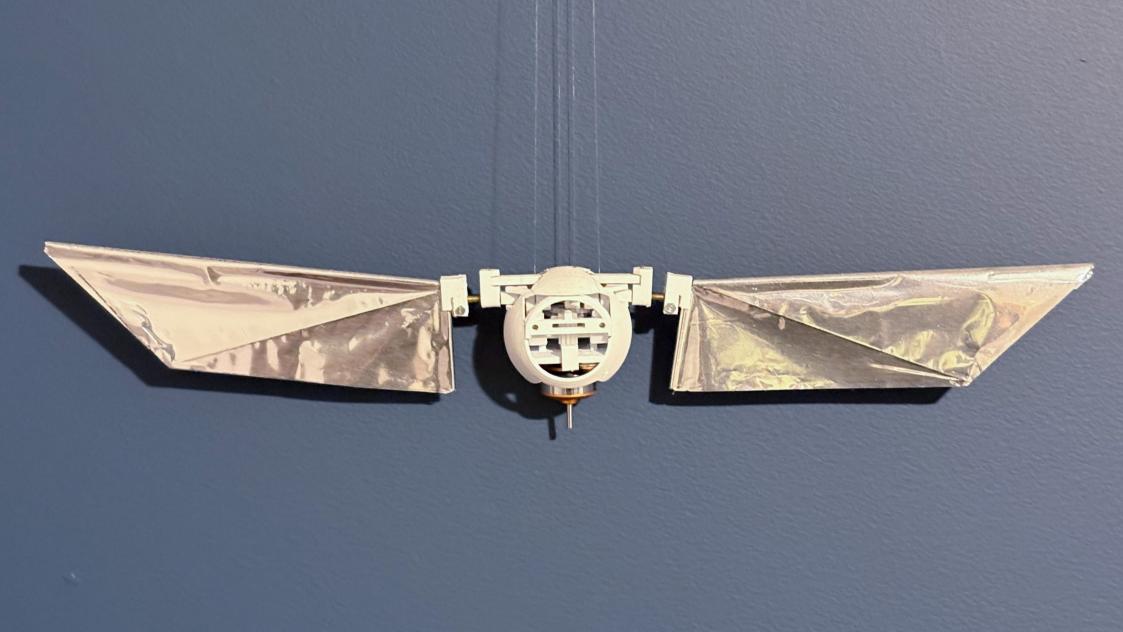
A flagship new treadmill from Nordiccreating an intuitive, tactile interaction, without compromising robustness.



inside the working area.

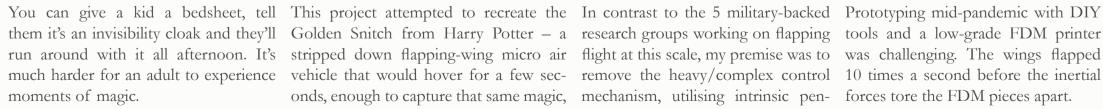


many of its industry-leading sequencdesign and validation for the MiSeq i100 Series consumable loading mechanisms.



THE GOLDEN SNITCH





onds, enough to capture that same magic, mechanism, utilising intrinsic peneven if just for a moment.

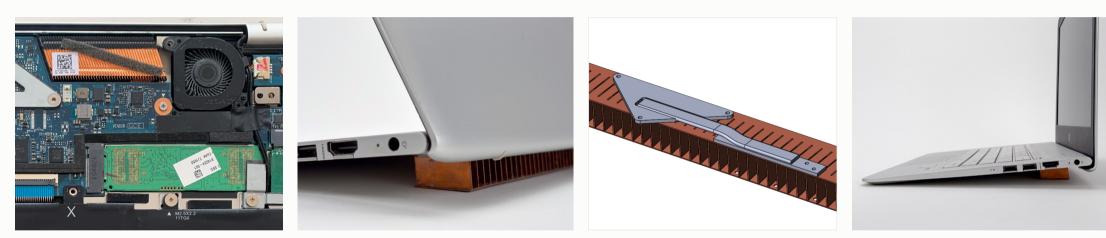
dulum-like stability and a balanced mechanism with quarter-wave symmetry.

Prototyping mid-pandemic with DIY tools and a low-grade FDM printer was challenging. The wings flapped forces tore the FDM pieces apart.

· Check Snees



PASSIVE LAPTOP COOLING



Frustrated by the poor thermal design of my struggling 8 year old laptop, and emboldened by my work in consumer electronics, I decided to upgrade its cooling system.

With no room internally for effective air- I developed the process myself for a Design for uncertainty is a key part of flow, I built a custom heat pipe assembly similar work project. With minimal to move the heat out of the chassis to information online, I combined an experimental silent passive cooler I designed.

theory with parallel examples, experimenting to unlock new capabilities for thermal innovation.

my prototype development. Simulations require every parameter to be set, which is impractical at concept stage. I prototype with a focus on adjustability and measurability as a basis for effective iterative design.











OTHER PROJECTS



that cuts out the paths you draw digitally onto the material.

A touch-controlled tabletop CNC router A TV stand that explores materials used out of context. The thin wooden sections with hand-crafted waterfall joints look both familiar and unnatural as a self-supporting silhouette.

projects, a production line robot arm peeler for improved functionality, programmed to plug in connectors DfM & brand. by mimicking the compliance of a human hand.

One of several industrial robotics OEM redesign challenge of an electric