School of Mechanical Engineering

Course Code: BTME3056 Course Name: Product Design

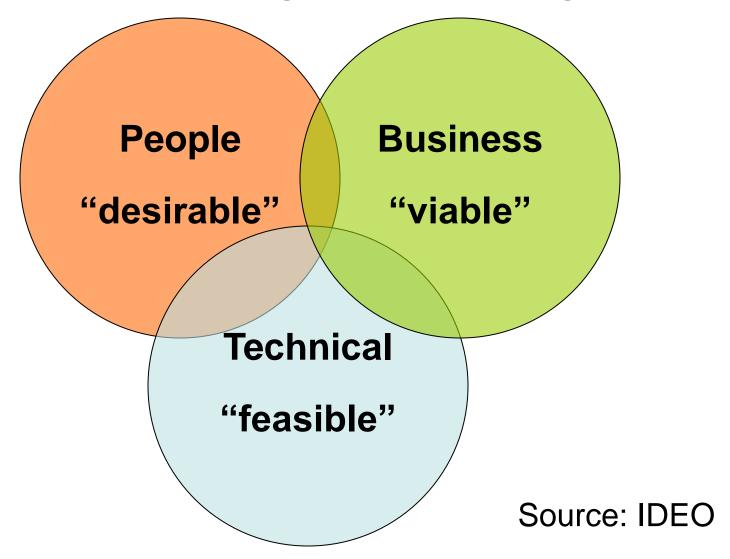
Industrial Design

GALGOTIAS UNIVERSITY

Industrial Design



Three Design Challenges



Aesthetic Design







Ergonomic Design





User Interface Design





Experience Design: Combining Form and Function









Canon EOS Kiss X3





Nikon D3





Olympus PEN EP-1







Industrial Design Chapter Example:

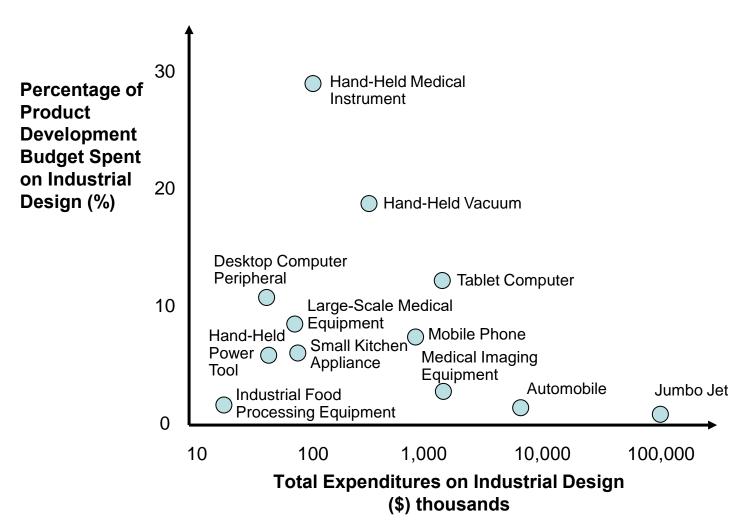
Philips Sonicare







Cost of Industrial Design



Product Design and Development (7th ed.) Exhibit 11-2

Design Equity (Visual Equity)

Recognizable products

Quality reputation

Consistent image



Hofmeister Kink

Design Language



Kidney Grille and Round Headlights





Spy rendering of BMW 1 Series (never produced), with modified grille shape and without the Hofmeister Kink.













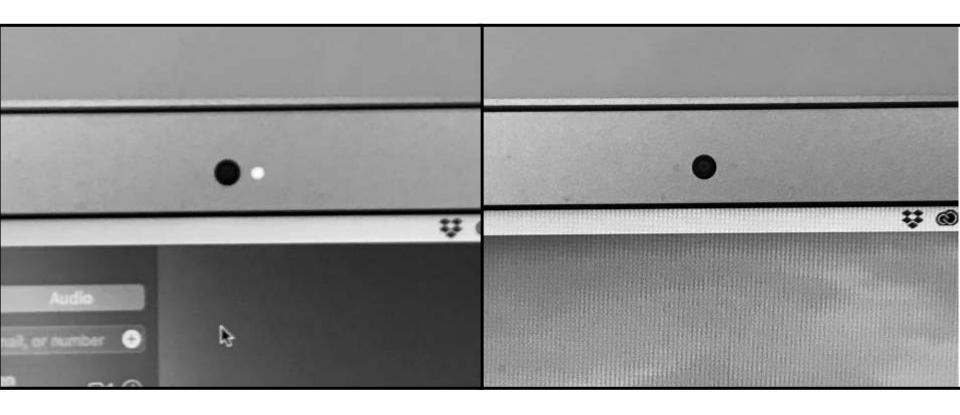








Apple MacBook FaceTime Camera



Camera ON (visible indicator)

Camera OFF (invisible indicator)



Don Norman

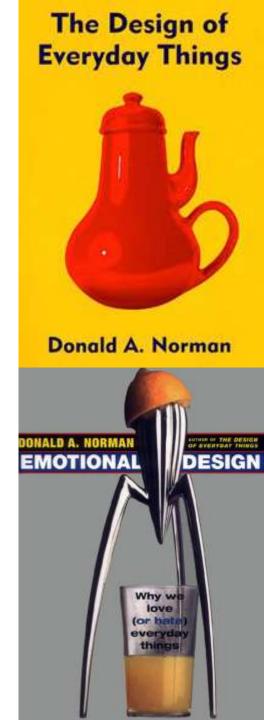
MIT

Northwestern

Apple

UCSD

cognitive science of design



Discussion

Why do aesthetics matter in products?

Discussion

What might designers mean by experience design?

References

- 1. Karl T. Ulrich and Steven D. Eppinger (2009), Product Design and Development, 4th Edition, Tata McGraw-Hill Publishing Company Limited, ISBN: 978-0-070-14679-2
- 2. Stephen C. Armstrong (2005), Engineering and Product development Management—The Holostic Approach, Cambridge University Press, ISBN: 978-0-521-01774-9.
- 3. IbrahimZeid (2006), Mastering CAD/CAM, 2nd Edition, Tata McGraw-Hill, ISBN: 978-0-070-63434-3.
- 4. <u>Anoop Desai</u>, <u>Anil Mital</u> and <u>Anand Subramanian</u> (2007), Product Development: A Structured Approach to Consumer Product Development, Design, and Manufacture, 1st Edition, Butterworth-Heinemann, ISBN: 978-0-750-68309-8.

Thank you