



Swansea College of Art

Trawsnewid Addysg; Trawsnewid Bywydau Transforming Education; Transforming Lives













National Survey Outcomes

1 st in the UK for Fashion & Textiles

(Guardian League Table 2020)

7th
In the UK for
Design &
Crafts

(Guardian League Table 2020)



(Guardian League Table 2020)

























Modelling in Product Design























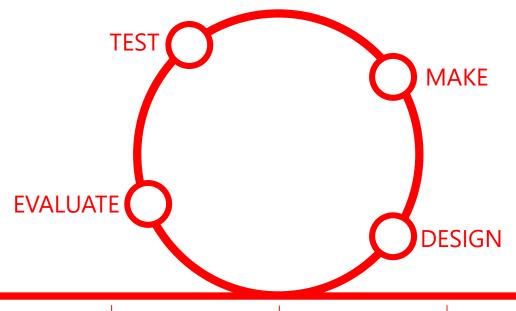








Product Design = iterative research process Modelling = simulation 'looks like' or 'works like'



OPPORTUNITY IDENTIFICATION

BRIEF SPECIFICATION

CONCEPT **IDEATION**

DFTAIL DEVELOPMENT

IMPLEMENT PRODUCTION









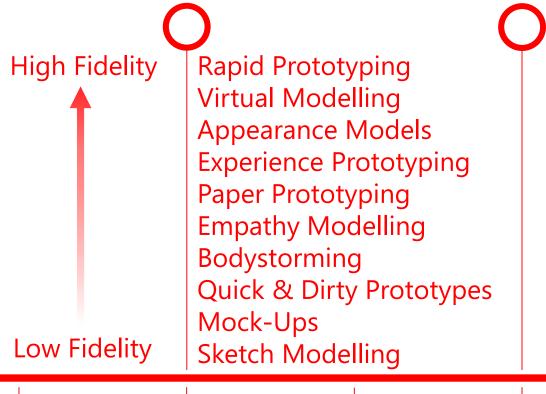








Modelling Types:





BRIEF SPECIFICATION **CONCEPT IDEATION**

DFTAIL DEVELOPMENT

IMPLEMENT PRODUCTION











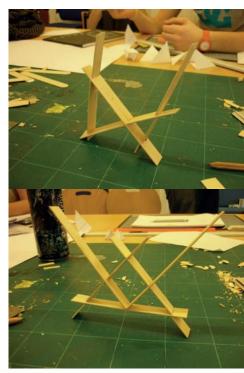






Sketch Modelling LoFi

- LIFE SIZE or SCALE
- 3D EXPLORATION OF EMBRYONIC IDEAS
- EVALUATE AESTHETICS | ERGONOMICS | FUNCTION | USABILITY | CONFIGURATION
- EXPLORE IDEAS, PROBLEM SOLVE AND CAPTURE IDEATION PHASE

























Mock-Ups LoFi

- LIFE SIZE
- PRACTICAL TESTING OF IDEAS
- EVALUATE FORM | FUNCTION | ERGONOMICS
- PROOF OF PRINCIPLE [PoP]

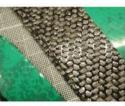










































Quick & Dirty Prototyping LoFi

- LIFE SIZE
- COMMUNICATION OF IDEAS AND CONCEPTS WITH OTHERS
- **EVALUATE BASIC FORMAT | USE**
- **ROUGH & READY TO SPEED UP DESIGN PROCESS**











































Bodystorming Lofi

- o **ENACTMENT**
- SUPPORT IDEATION AND EMPATHY MODELLING
- EVALUATE SOCIAL & SPATIAL SCENARIOS | BEHAVIOUR | USER EXPERIENCE (UX)
- LOW COST 'PROPS'



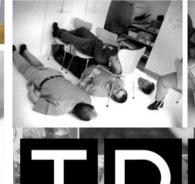
































Empathy Modelling LoFi

- LIFE LIKE or ACTUAL
- SIMULATE USER CAPABILITIES (PHYSICAL or COGNITIVE)
- EVALUATE USABILITY | USER EXPERIENCE (UX)
- INCLUSIVE DESIGN OLDER or DISABLED USERS























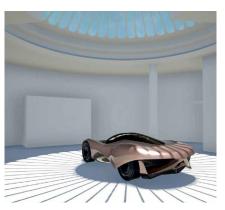


Virtual Modelling Hiff

- o LIFE SIZE
- ACCURATE REPRESENTATION OF AESTHETIC AND FUNCTIONAL FEATURES
- EVALUATE APPEARANCE | PERFORMANCE | MANUFACTURING
- RENDER, ANIMATE, VR, CHECK INTERFERENCE, MOULD/KINEMATIC/HEAT/STRESS























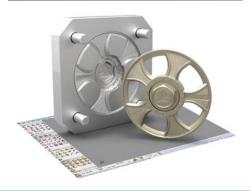




Rapid Prototyping HiFi

- LIFE SIZE
- CONCEPT MODELLING AND ACCURATE AESTHETIC AND FUNCTIONAL **PROTOTYPES**
- **EVALUATE ALL ASPECTS OF DESIGN SPECIFICATION**
- DIVERSE RANGE OF PROCESSES AND MATERIALS / DESKTOP > INDUSTRIAL



























Appearance Models HiFi

- LIFE SIZE or SCALE
- SIMULATE AESTHETIC QUALITIES (NON-FUNCTIONING)
- EVALUATE AESTHETICS | FORM | FEEL | USER RESPONSE
- COMMUNICATION | MARKETING | EXHIBITION

























Appearance Models HiFi

- LIFE SIZE or SCALE
- SIMULATE AESTHETIC QUALITIES (NON-FUNCTIONING)
- o EVALUATE AESTHETICS | FORM | FEEL | USER RESPONSE
- COMMUNICATION | MARKETING | EXHIBITION















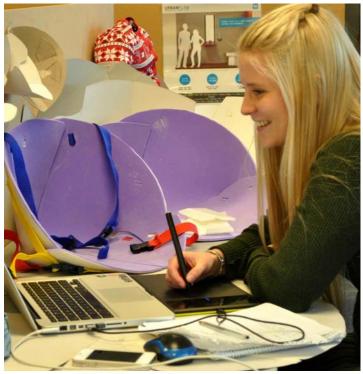






"fail often to succeed sooner" David Kelley IDEO

KEIRA GWYNNE – 'SCALLOP' by R82























"fail often to succeed sooner" David Kelley IDEO

KEIRA GWYNNE – 'SCALLOP' by R82























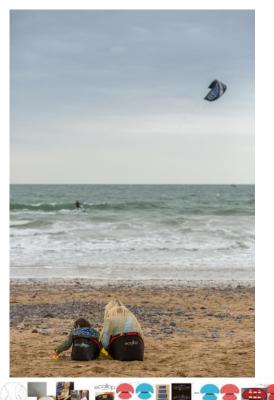
"fail often to succeed sooner" David Kelley IDEO

KEIRA GWYNNE – 'SCALLOP' by R82

























Experience Modelling Lofi > Hifi

- TESTING USER EXPERIENCE OF ENGAGEMENT WITH PRODUCT | SERVICE
- EVALUATE INTERACTION | USABILITY | USER EXPERIENCE (UX)
- UNCOVER UN-ANTICIPATED ISSUES OR USER NEEDS























Swansea College of Art

Trawsnewid Addysg; Trawsnewid Bywydau Transforming Education; Transforming Lives







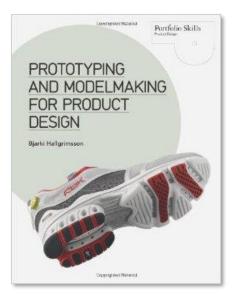


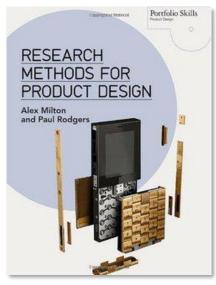


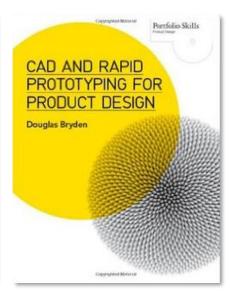


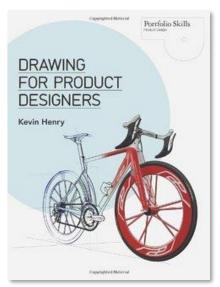
Useful references

- o makezine.com
- instructables.com
- PORTFOLIO SKILLS: Product Design [published by LaurenceKing.com / buy on Amazon.com]































Swansea College of Art

Trawsnewid Addysg; Trawsnewid Bywydau Transforming Education; Transforming Lives











