Portfolio

NIRMAL KUMAR.A PRODUCT DESIGNER

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EDUCATION:

- 1. Diploma in Tool n Die making
- 2. B. Tech Mechanical
- 3. P.G in Product Designing

SOFTWARE SKILLS:

Alias, Cre-o, Keyshot, Solidworks Photoshop, Illustator, Sketch book.

WHAT I'VE DONE WITH MY LIFE SO FAR













Market study

Product Description	65					
Product name	steel hexagon spanner	universal wrench	adjustable spanner	socket wrench	schrodinger multi tool	wrenchit
2. Product size	15.3×4.8 cm	12×6×1 inch	200×50×14 mm	255×50×14 mm	90×40×25 mm	13.4×2.3 cm
3. Material	steel	alloy steel	iron-nickel alloy	stainless steel	hardened cast steel	stainless steel
4. Colour	silver	silver	silver metallic	silver	nickel & black	silver
5. Tools range	8 to 17 mm	9 to 42 mm	max 24 mm	12-19/8-21/10-22 mm 8 in 1 socket	2 to 6mm allen key 6&8 socket	6 to 13 mm bits

Product design specification - QUICK TOOL

1. Product name Quick tool

2. Product size Dia 26 mm×45mm height

3. Material Body - steel

Tool tip - hardened cast steel

4. Colour Silver 5. Tool range 4mm t

4mm to 24 mm allen key size

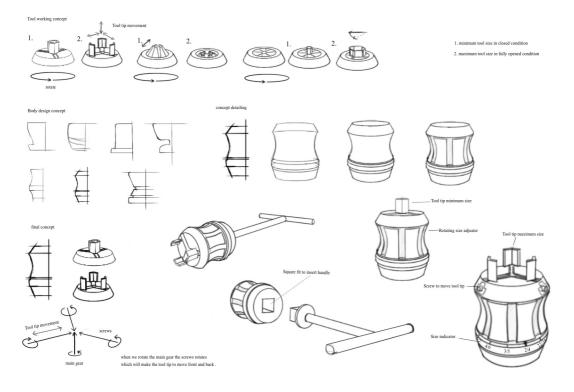
2mm to 22 mm socket size

working mechanism insipred from lathe chuck



design insiprition from drill chuck







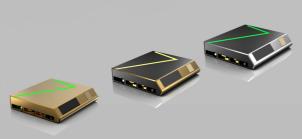




key finder and holder

That early-morning scramble to find your keys before you leave the home doesn't have to be so frantic if you've got a key finder and holder that connects with smartphone or tablet via bluetooth You then locate your item via the free app on your smartphone and GPS..

key finder has four key slot where you can insert your personal keys which can be opened via finger print access. key finder and holder has led lights fitted in side and top faces and 90LB audiable alert noise which helps user to locate in darkness.key finder and holder is attach with 2-way finder button to locate your smartphone and tablet while missing.



Data collection

user study









market study

Brands Features	1.	•	Curcio			
BRAND NAME	Tile mate	Trackr bravo	Chipolo plus	Duet protag	Nut	Pally smart finder
RANGE (ON AVERAGE)	68 feet	70 feet	66 feet	70 feet	65 feet	93 feet
BATTERY TYPE	Nonreplaceable battery	Replaceable CR2016 battery	Nonreplaceable battery	Replaceable CR2016 battery	Replaceable CR2016 battery	AAAA battery
COMPATIBILITY	Android, iOS	Android, iOS	Android, iOS	Android, iOS	Android, iOS	Android, iOS
GEOFENCE FEATURE	Yes	Yes	Yes	Yes	No	Yes
AUDIBLE ALEART NOISE	88 dB	85 dB	90 dB	75 dB	75 dB	115 dB
GPS NAVIGATION & TRACKER	2-way tracking	2-way tracking	2-way tracking	2-way tracking	2-way tracking	1-way tracking
DIMENSION	1.3×1.3×0.2 inches	Dia 1.2×0.14 inches	Dia 1.5×0.23 inches	1.1×1.1×0.2 inches	1.4×1.4×0.22 inches	1.5×0.9×0.52 inches
LED LIGHT	No	Yes	No	No	No	No

mood board

1.stress





3. Time waste



4. Tension



Bench marked product

Tile mate

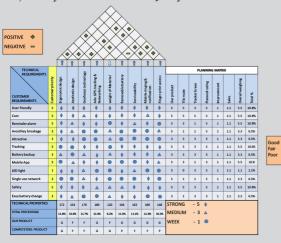
specification



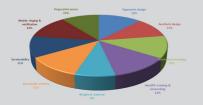
weight size sound charging keyring hole Technology Battery Compatibility 6.1g 34344.65 mm 88 decibel melody none yes bluetooth LE

Nonreplaceable iOS, Android Water resistance up to IP5 standards

Quality functional deployment



TECHNICAL REQUIREMENT



product design specification

- 1. Brand name
- 2. Range (on average)
- Battery type
 Compatibility
- 4. Compatibility
 - Geofence feature N Audible aleart noise
- GPS Navigation & tracker
- 8. Led light
- 9. Finger print access
- 10. Key holding
- 11. Material
- 12. Colour
- 13. Dimension 14. Buttons
- 15. Packaging

Key finder and holder

70 feet

Replaceable CR2016 battery Android, iOS

Yes

90 db 2-way tracking

Yes

Upto 10 person

Upto 4 different keys

Steel

Silver, gold & black 55×40×10 mm

Key release button, 2-way finder button 56×41×10.5mm cardboard box

With 0.6mm thick.

Theme board

zippo lighter



Design characters

1. Square in shape 2. Steel material

3. Silver colour
4. Ruggedness look
5. Egde radius

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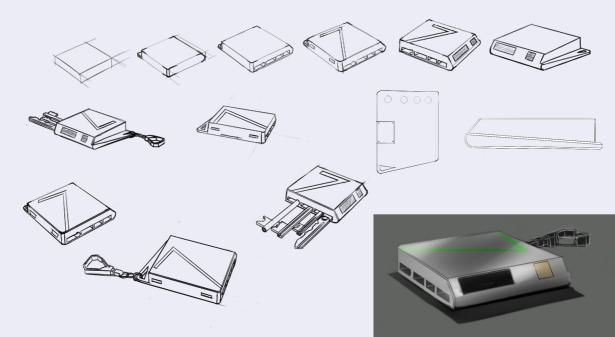
Shield shape is for led lights



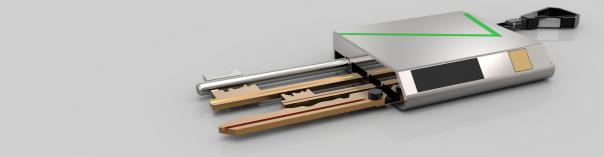
spartan

war shield

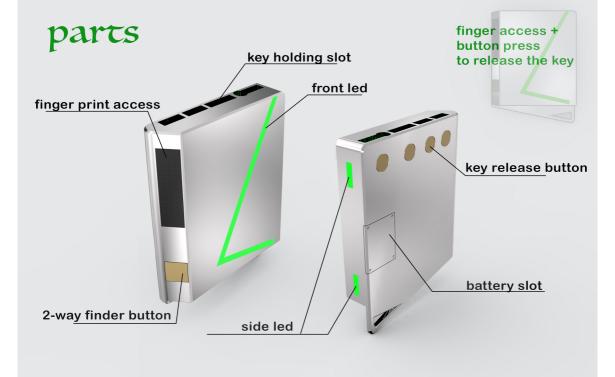
Sketches (Sketch book), Rendering (Photoshop)



Rendering (Key shot)



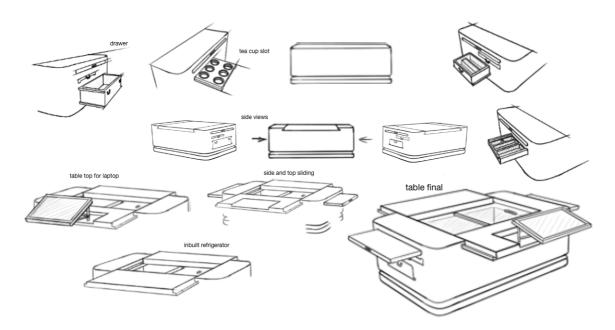


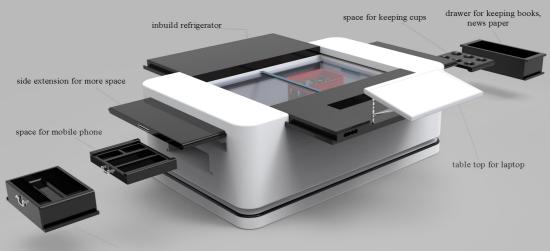




multi-centre table

Table with inbuild refrigerator Top four side extension Storage space for keeping stuffs like (news paper, books, key chains, mobile phone)





drawer for keychains, nose glass

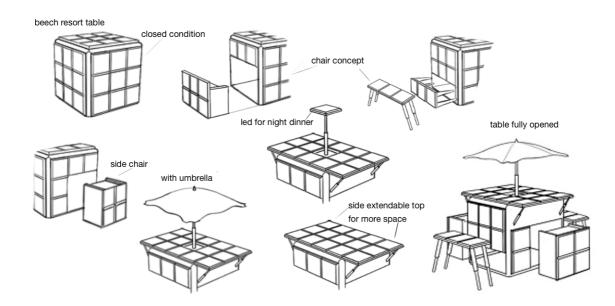






Beech Resort Table

Table concept is taken from rubix cube Chairs can be folded into the cube Umbrella or led light can be attached Table top is extended for more space This is a convertable space saving resort table



Fully closed table



with detachable chairs

with side chairs



Top extendable for more space









