Hybrid Electronics Architecture Opportunities
Girish Wable
Discrete to Integrated Assembly
Human Machine Interface
Evolving Design Complexity & Integration
Assembly - Today

- Gerber Design
  Touch, LED, Power, Controls

- PCB

- Complex SMT
  Placement/Test

- Illustrate Design
  Graphics

- Icon Graphics Label

- Graphics Label
  Injection Molded @ Facility 2 or 3

- Multiple SKUs
  Languages
  Colors
  Button Locations

Integrate PCBA, Light Guides and Injection Molded Part at High Volume
Assembly - Tomorrow

- Integrated Design
  Graphics +
  Power, Controls,
  Touch, LED

- Icon Graphics Label

- PE Label

- Add FHE/LED/Test

- Integrated Label
  Injection Molded

- Multiple Languages
  Colors
  Button Locations
  SMT Pads

Ref uniquarta
3d Printing - Rigid to Flexible Hybrid Electronics
3d Printing – Traces to PCBs

3d Printed 3d Shape (Phone Cover)

3d Printed Flat Shape (single/multi layer PCB)

3d Printed Flexible Shape (PCB)
3d Printing – Integrating Hybrid Electronics

3d Printed 3d Shape (Phone Cover) + Rigid Hybrid Electronics

3d Printed Flat Shape (PCB) + Rigid Hybrid Electronics

3d Printed Flexible Shape (PCB) + Rigid Hybrid Electronics
Thank You girish_wable @jabil.com