AUTODESK UNIVERSITY

Consumer Product Design Re-Imagined – CP500021

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Plastic Product Design [Demo]

Electronic Component Connections [Demo]

Plastic Part Manufacturability [Demo]

Special Thanks to

Logitech

Key Takeaways

Product Design Extension in Fusion 360

- Automate adding part features specific to plastic molded components
- Boss creation
  - Preset sizes
  - Automatic draft angles, fillets, chamfers
  - Top/bottom assembly boss creation in one step
  - Dynamic cross section
- Smart, material specific properties to web/rib creation
- Customizable automated geometric patterning

PCB Design in Fusion 360

- Collaboration for easy passing of component files between mechanical/design engineer and electronic engineer
  - Design unification
  - No file conversions necessary
- 3D PCB board creation tied to part geometry
- Expansive part library includes partner contributions
- Dynamic manufacturability error checking and automated path creation

Key Takeaways

Plastic Part Manufacturability in Fusion 360

- Injection Molding Simulation for Fusion 360 Technical Preview now available
- Fast, 2-click setup
- Cloud solvers based off of the Autodesk Moldflow solvers
- Guided results describe the problems and how to approach fixing each
- Study cloning and comparison tools to find optimal design, material, process settings