From Crisp Design to Clean Documentation
An Introduction to Fusion 360 Drawings

Krithika Sundararajan
Software QA Engineer, Autodesk, Inc.
This class is centered on the documentation component of Fusion 360 software application, Fusion Drawings.

Learn about the user interface, commands, and functionality that the drawings offer. Gain a clear understanding of some key concepts regarding how the drawing relates to the 3D model to achieve easy customization and minimized workflows. Learn how to create and edit production-quality drawings in Fusion 360 software, rapidly.
At the end of this class, you will be able to:

- **Explore** the full feature set that Fusion 360 Drawings offer, including the user interface, commands, and version management
- **Learn** about the various access points, shortcuts, and customizations in the drawings to work efficiently
- **Create** and edit production-quality drawings in Fusion 360 with a toolset tailored to meet manufacturing standards
- **Export or Share** the drawings with individuals or the public using Autodesk 360’s collaboration tools
About Me

- Computer Engineer by degree, Software QA Engineer by profession
- Working with Fusion 360 Drawings for the last 2 years
- Experience with AutoCAD and AutoCAD Web
- Movies, Music, Yoga
Agenda

- Introduction
- User Interface & Features
- Collaboration & Version Management
- Takeaways
Introduction
Anytime, Anywhere

Cross Platform
Available for Windows and Mac OS

Review App
Available for Android and iOS

Web Access
A360 Drive, Viewer
Fusion 360 Drawings

- Document derived from a Fusion 360 model
- Supports ASME and ISO drawing standards
- Built on AutoCAD’s drawing engine
The Drawings Team

San Rafael, San Francisco
Lake Oswego
San Francisco

Shanghai
Pune
Bangalore

Singapore
Sydney
Accessing Fusion 360 Drawings

- Drawings created from the design or animation keyframes
- Drawing of full assembly or individual components
- Access points in the File Menu and Browser tree
User Interface

- Right-click contextual marking menu
- Trackpad Gestures
Creating Drawings

- Create Views, Annotations
- Save drawings (.f2d files)
- Configuration options in Document Settings
Model Associativity

- Changes made to model can be applied to drawings with ‘Get Latest’ command

- Disassociated annotations can be fixed with ‘Reassociate’ command
Editing Drawings

- Double click to edit drawing entities like Views, Dimensions, Hatch, Titleblock, etc.
Exploded Views

- Drawings can be created from animation keyframes
- Base views are Exploded views
Bill of Materials

- Balloons and Parts List can be added from BOM Panel
- Options to align and renumber Balloons
Geometric Dimensioning and Tolerancing Symbols

- Datum Id and Feature Control Frame
- Based on ASME Y14.5-1994 and ISO 1101:2012
- Command Dialogs include a Symbol Palette with special characters defined by the standards
Collaboration

- Export drawings in PDF or DWG formats
- Invite Project members
- Share individual files from the Data Panel
Version Management

- Drawings reference specific versions of the model
- To update drawings to the latest model version, ‘Get Latest’ from the QAT
- View older versions using the ‘Info’ button on the file thumbnail
Introduction

User Interface & Features

Collaboration & Version Management

Takeaways
Takeaways

**Accurate**
Best in class documentation tool with a growing feature set

**End to End**
Cloud based product which provides an end to end solution: From design until production

**Ecosystem**
Access your files anytime, anywhere. We'll make sure they will always stay up to date
Fusion 360 Meetup
- Monday 6-8pm, Opium Room @ Tao
- Networking, look ahead & community awards

Fusion 360 Design Slam
- Wednesday 6:30 PM, Education Booth in Exhibit Hall
- Students vs Professionals design showdown

Fusion 360 Voice of the Customer
- Tuesday to Thursday 9am-6pm, Venetian Level 3 (Green)
- Contextual interviews, usability, and concept feedback

Fusion 360 Office Hours
- Tuesday to Thursday (See Schedule), Venetian Level 3 (Orange)
- Spend 1:1 time with the Autodesk Fusion Team

Fusion 360 Office Hours
- Tuesday:
  - 8-10am (MFG Lounge Level 3)
  - 2-3:30pm (MFG Lounge Level 3)
  - 6-7:30pm (Exhibit Hall MFG Booth)
- Wednesday:
  - 8-10am (MFG Lounge Level 3)
  - 2-3:30pm (MFG Lounge Level 3)
- Thursday:
  - 8-10am (MFG Lounge Level 3)
  - 10-12am (MFG Lounge Level 3)
Questions?

Email: krithika.sundararajan@autodesk.com
Be heard! Provide AU session feedback.

- Via the Survey Stations, email or mobile device.
- AU 2016 passes awarded daily!
- Give your feedback after each session.
- Give instructors feedback in real-time.