

MFG125526-L

## **CAM Certificate 2 of 5: 2D Milling**

Kevin Lee  
LeeVerage Integration, Inc.

### **Learning Objectives**

- Create and understand 2D Toolpaths
- Use and control 2D Toolpaths effectively
- Apply manufacturing thinking in various situations
- Improve existing workflows and incorporate Industry Best Practices

### **Description**

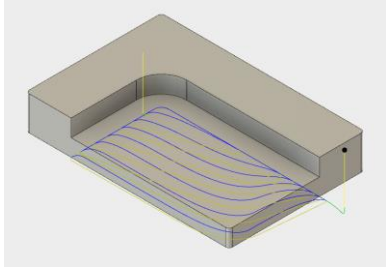
This class will cover the fundamental concepts of 2D machining, including high-value best practices, tips, and tricks from product experts. Attendees should expect to learn full 2D workflows, and conceptually understand how to generate and manipulate 2D toolpaths in Fusion 360 software.

### **Speaker(s)**

Kevin is an innovative entrepreneur specializing in advanced manufacturing solutions using CNC and 3D printing technologies. He provides leadership and experience as managing director of his own company LeeVerage Integration Inc. located in southwestern Ontario, Canada. Kevin's focus on integrated CAD/CAM solutions provides guidance to the firm and its clients looking for innovative technologies that deliver competitive advantage with long term sustainability. Kevin extends his knowledge and experience to his local Fanshawe College where he is a part-time professor teaching students CNC machining with G-code programming and CAD/CAM applications.

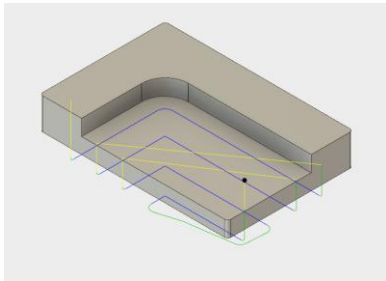
## 2D Roughing

The Adaptive Clearing algorithm uses a constant engagement parameter to calculate the toolpath. The Optimal Load parameter lets you control the target engagement to keep the tool engaged without becoming overloaded.

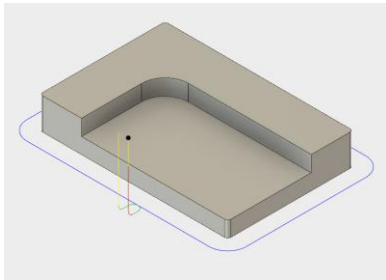


## 2D Finishing

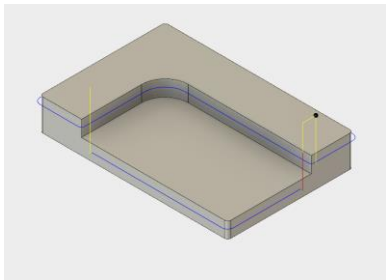
### 2D Pocket



### 2D Contour



### 2D Chamfer



## **Additional Resources:**

### **Fusion 360 Adoption Content (Prerequisites)**

2D Roughing: <http://f360ap.autodesk.com/courses/fundamentals-of-milling/lessons/lesson-3-roughing>

2D Finishing: <http://f360ap.autodesk.com/courses/fundamentals-of-milling/lessons/lesson-4-2d-finishing>

Stock Simulation: <http://f360ap.autodesk.com/courses/fundamentals-of-milling/lessons/lesson-6-stock-simulation>

Toolpath Management: <http://f360ap.autodesk.com/courses/fundamentals-of-milling/lessons/lesson-7-toolpath-management>

### **Quick Tips**

Selection Tool in CAM: <http://f360ap.autodesk.com/courses/fundamentals-of-milling/lessons/quick-tip-selection-tools-for-cam>

Edge Selection & Compare and Edit: <http://f360ap.autodesk.com/courses/fundamentals-of-milling/lessons/quick-tip-edge-selection-and-compare-and-edit>