

Getting Started with Shaper Origin
with Noah Berkowitz-Mitchell & Jake Stilwell
August 17-18, 2020 (Monday – Tuesday)

Tool Requirements:

- Shaper Origin (required)
 - If you are interested in borrowing an Origin during class, a limited number may be available; please contact Noah for more info.
 - Dial or Digital Calipers (required)
 - [Titan Mini Flat Bar](#) or similar (required)
 - Titan 11509 9-1/4"
 - <http://a.co/d/5P39jZM>
 - [Spare Cutters](#) (2 of each 1/4 and 1/8 required) -
 - Shaper SC1 - 2500 & SC1 - 1250
 - <https://www.shapertools.com/store>
 - [Double Sided Tape](#) (required)
 - IPG 597 - 2"
 - <http://a.co/d/f3XRmFv>
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Intermediate Projects with Shaper Origin
with Noah Berkowitz-Mitchell & Jake Stilwell
August 19-21, 2020 (Wednesday – Friday)

Tool Requirements:

- Shaper Origin (required)
 - If you are interested in borrowing an Origin during class, a limited number may be available; please contact Noah for more info.
- Dial or Digital Calipers (required)
- [Titan Mini Flat Bar](#) or similar (required)
 - 11509 9-1/4"
 - <http://a.co/d/5P39jZM>
- [Spare Cutters](#) (3 of each 1/4 and 1/8 required)
 - Shaper SC1 - 2500 & SC1 - 1250
 - If you are taking both classes a total of 3 of each cutter is enough
 - <https://www.shapertools.com/store>
- [Tapered Ball End Mill](#) (required)
 - Freud 72-400 5.4°x 1/16"
 - <https://www.amazon.com/dp/B01M0UYHU3>
- [Double Sided Tape](#) (required)
 - IPG 597 - 2"
 - <http://a.co/d/f3XRmFv>
- Shaper Vertical Workstation (required - students will build this in the intro course)