



## EPISODE 39: SHOW NOTES AND ACTION ITEMS

### Show Notes

In this episode, we heard Eric Wooldridge discuss Somerset Community College's program on 3D-digital printing. To learn more about 3D printing, its applications in various industries, and the possibilities for a career in this rapidly growing field, visit their [website](#). You'll also find a description of their 16 credit-hour certificate.

Eric also talked about "bound metal." **Bound metal deposition** is an extrusion-based metal additive manufacturing (AM) process where metal components are created by extrusion of a powder-filled thermoplastic media.

**Desktop metal** refers to putting down layers of metal and ceramic powders that are mixed in a soft polymer. Once a mixed-media item is printed, it goes into a furnace where it is rapidly cooked. Heat burns off the polymer. Gases are filtered by charcoal. Meanwhile, the metal is fused together but at a temperature that won't make it melt and lose its shape.

### Videos to Learn More

Watch Eric's video posted on Facebook "[Thinking About a Career Change](#)."

Somerset Community College hosts a Youtube Channel, [The Additive Guru](#). With a number of videos on additive manufacturing and 3D printing, you'll quickly see why they have over 80,000 subscribers. Start by taking a [guided tour](#) of their lab with Eric where he'll show you where they teach pre-engineering, design, and 3D printing.

### Acronyms and 3D Glossary

Today we used several acronyms:

- SLA - [Stereolithography](#) apparatus
- SLM - [Selective Laser Melting](#), a 3D metal printing technology
- FDM - [Fused Deposition Modeling](#)

This [3D printing glossary](#) may also be helpful.