



Dear MIX Lab friends:

Picatinny Arsenal, in conjunction with Montclair State University, is excited to provide two [free 3D Printing and 3D Design workshops](#) for educators of Northern New Jersey.

These must-attend workshops will change how you use and teach digital design and 3D Printing in the classroom.

And how you can use and leverage 3D Design and 3D Printing to advance your robotics teams.

All sessions are taught by Montclair State University professors - [Jason Frasca](#) and [Iain Kerr](#).

These workshops are ideal for:

- Educators K-12 in STEM / STEAM, the arts, and all other disciplines
- Robotics team coaches
- 3D Printing administrators and educators
- Designers of all kinds

Beginner Workshop: 3D Design, 3D Printing, and Digital Design

- This workshop is ideal for any Robotics coach or K-12 educator who is new to 3D Design or is contemplating getting a 3D Printer.

When: July 10-11, 2023

Advanced Workshop: 3D Design, 3D Printing, and Digital Design

- This workshop is ideal for any Robotics coach or K-12 educator who is comfortable with 3D CAD Design software and/or a 3D Printer

When: July 12-13, 2023

[Register Now](#)

All workshop days include lunch, snacks & coffee, and paid parking.

Laptops will be provided for those who need them with the necessary software.

- All the software we use is free for educators

The workshops are free, thanks to the generosity of Picatinny Arsenal.

But, spots are limited to 15 per workshop...

Reservation requests will be prioritized by school districts in need and order of registration.

You must [register](#) ASAP to reserve your spot.

Curious about what we will cover and do in these workshops? We [chronicled the experience](#) last summer.

Here's an overview of the curriculum — much more [detail on our webpage](#).

Introductory 2-day workshops designed for the novice will cover:

- Introduction to 3D Printing
- Introduction to 3D Printing Techniques
- Introduction to 3D Printer Maintenance

- Introduction to Teaching Digital Design (TinkerCad)
- Introduction to Digital Design (Fusion 360)
- Finishing 3D prints for use and presentation
- Digital design for all ages
- Innovation, creativity and digital design

Advanced 2-day workshops designed for the intermediate to advanced will cover:

- Overview / Refresher to 3D Printing and software
- Advanced Digital Design (Fusion 360)
- Advanced Teaching Digital Design (Fusion 360)
- Advanced 3D Printing Techniques (from pieces within pieces, to post printing magic)
- Advanced 3D Printer Maintenance
- Augmenting your Printer with other Devices (laser, cnc, vinyl, etc.)
- Hybrid Design – how to get the most from digital tools and analog tools
- On innovation in any circumstance and any age
- Moving from STEM to STEAM and beyond

Both workshops will include ample time for Q&A.

If you have any questions - please email Jason Frasca: frascaj@montclair.edu

We hope you and or your faculty will join us!

Best regards,

Iain Kerr and Jason Frasca

Professors Montclair State University

P.S.: Feel free to forward this to an educator colleague...