

## Dr. Tarek ElShebiny

**Session Time:** 1:30 PM – 2:30 PM (Track 1)

**Presentation:** *“Software and Artificial Intelligence to Maximize In-house 3D Printing”*

**Synopsis:** 3D printing has exponentially grown in orthodontics. The presentation will cover: a) Different 3D printing technologies with their pros and cons; b) Applications of 3D printing in orthodontic office with clinical cases treated with in-house aligners and in-direct bonding; c) Accuracy of virtual brackets placement and removal. d) Comparison of different virtual tooth movement software packages and uses of artificial intelligence to maximize the digital workflow efficiency.



### **Objectives:**

At the conclusion of this lecture, doctors will:

- Learn about different 3D printing technologies with their pros and cons.
- Learn about 3D Printing applications in an orthodontic office. (In-house aligners ,In-direct bonding, virtual bracket removal, and printing time)
- Learn about virtual tooth movement software programs
- Learn about uses of artificial intelligence to maximize the digital workflow efficiency.

### **Biography:**

Dr. ElShebiny has completed his orthodontic training at Case Western Reserve University in Cleveland, Ohio, followed by a Surgical Special Care and Craniofacial Orthodontics Fellowship also at CWRU. Dr Elshebiny was the AAO recipient of the 2017 Craniofacial training award and the AAOF 2020 recipient of the James A. McNamara Orthodontic Faculty Award. Dr. Elshebiny has lectured nationally and internationally, and is currently an Assistant Professor and the Orthodontic Clinic Director at Case Western Reserve School of Dental Medicine.