

Healthcare Engineering Lecture Series

Title: Virtual reality technology for surgery: a need-based innovation in healthcare

Speaker: Justin Barad, MD, Orthopedic Surgeon, Founder/CEO Osso VR, San Francisco, CA.

Education:

- MD, School of Medicine, UCLA
- BS, Biomedical Engineering, University of California, Berkeley

Qualifications:

- Founder & CEO of Osso VR, a leading company dominating the surgical VR market.
- Built the first prototype of what is now the leading virtual reality solution used for training and assessing today's surgeons, sales teams, and hospital staff.
- Health & Fitness Technology Board of Directors, Consumer Technology Association
- Editor, Medgadget

Time: April 1, 2021, 4:00 – 5:20 pm

Zoom: <https://zoom.us/j/98890792479?pwd=eTZCV0JtSmxRTHRTN1A0UWhXNIB1dz09>

Abstract:

Innovations in healthcare often have trouble gaining traction due to tech-push philosophies. In this lecture, we use Osso VR as a case study for the road from clinical immersion to development and commercialization of a solution. As a part of the discussion we will also go over some elements of the underlying XR technology utilized and other interesting applications in healthcare as well. Students should have a good understanding at the end of the talk of the current state of immersive technology and the general philosophy of problem oriented innovation.

Biography:

Founder and CEO of Osso VR, Justin Barad, MD, a board-eligible orthopedic surgeon with a Bioengineering degree from UC Berkeley, and an MD from UCLA – originally wanted to be a game developer and has been a lifelong coder and even has a game credit with Activision. When a personal family health incident introduced him to the world of healthcare, he decided to find a way to combine his passions and use his technology background to solve medical problems. During his residency, he identified what could be one of the most pressing medical challenges of this century: how we are training our surgeons. With a strong interest in gaming and a first-hand understanding of the challenges facing residents and experienced doctors, he co-founded Osso VR with a mission to improve patient safety and democratize access to modern surgical techniques.

Host/Organizer:

Ming Chyu, PhD, PE

Professor, Department of Mechanical Engineering

Adjunct Professor, School of Medicine

Founder, College of Engineering Graduate Healthcare Engineering Option

Texas Tech University

Founding Editor-in-Chief, *Journal of Healthcare Engineering*
Founding President, [Healthcare Engineering Alliance Society \(HEALS\)](#)