

## Lecture 11, Feb 7, 2021

### Root Cause Analysis

- Need to go from an experienced discomfort to an actual engineering opportunity characterized by what the actual cause is
- Why is this happening?
  - Why is that happening?
- How can we frame this in engineering design?
  - How do we define engineering design? What DfXes might be relevant?
- Example: Nike Flyease – getting in and out of shoes without hands is annoying – maybe we should design a shoe for exactly that behaviour
  - Identify the pieces of the system and their interactions
- What is engineering design to you? How do you show that you've actually done engineering design?