Pre-Class Assignment 7

Reading Material 1: **A Computational Model of a SPAD**

Question 1:
Please list some special effects of SPADs besides pile-up. Choose one of them to explain the reason for it, and how to model it.

Reading Material 2: **Single-photon computational 3D imaging at 45 km**

Question 2:
Why are SPADs suitable for ultra-long-range active optical imaging?

Question 3:
Briefly explain the forward model in long-range conditions.