

SEMINAR ANNOUNCEMENT

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
FACULTY OF ENGINEERING

Website: <https://www.eng.nus.edu.sg/ece/>

Area: Microwave & Radio Frequency

Host: Prof Chen Xudong

Teaching Seminar

TOPIC	:	Introduction to LIDAR systems
SPEAKER	:	Dr Amr Shaltout Staff Systems Engineer Velodyne Lidar, Inc., San Jose, CA
DATE	:	Thursday, 28 October 2021
TIME	:	10.00AM to 11.00AM
WEBINAR	:	Join Zoom Meeting https://nus-sg.zoom.us/j/4156763801?pwd=NUwzUWhwdlZlcGt3cmhyTzFld1V0QT09 Meeting ID: 415 676 3801 Passcode: 662108

ABSTRACT

The lecture covers a brief introduction to the Light Detection and Ranging (LIDAR) system including its concept of operation, basic building blocks, and technical discussion to some of its optical, circuit, or signal processing components.

BIOGRAPHY

Dr. Amr Shaltout received education and training at Stanford university as a postdoctoral scholar at the Geballe Lab for Advanced Materials, and at Purdue university where he received his Ph.D. from the Department of Electrical and Computer Engineering in December 2015. Prior to that, he received his B.Sc. in Electrical Engineering, and M.Sc. in Engineering Physics and Mathematics from Ain Shams University, Cairo, Egypt. He also has industrial experience working in optical sensing at Velodyne Lidar company in the United States and in Optical MEMS at Si-Ware Systems company, Cairo, Egypt.

His current research interests are in the area of active nanophotonics, where he focuses on developing tunable metasurfaces for spatiotemporal and ultrafast light control. He authored and co-authored 18 journal papers in top-tier journals including Nature and Science family. He is also the inventor of six related technologies with granted and pending patents in the United States.

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