



NETLAS NEWSLETTER 7

This newsletter marks the recruitment of the 7th ESR recruited to our ITN, on 1st November 2020.

PhD5: Masoud Payandeh

Host: Technical University of Denmark (DTU)

Secondments: Technical University of Darmstadt (TUDA) and Innolume



PhD Project: Wideband MEMS VCSEL

MEMS VCSELs are semiconductor-based light sources, have a very small footprint owing to the vertical cavity design. Generally, very highly reflective DBR mirrors along with III-V active material are used to define the cavity. Actuation of one of the mirrors contributes to changing the length of optical cavity and thus continuously tuning the emitting wavelength. The continuous sweep of wavelength makes them promising for low cost OCT applications. In the current project, we will mainly investigate the high-speed wideband MEMS VCSELs for SS-OCT.

Previous education: *BSc in Electrical Engineering, Electronics, Shiraz University, Iran .



**MSc in Micro and Nano-electronic Devices, Tarbiat Modares University, Iran.

From now on we invite all partners to communicate events and ideas to place in our newsletter

Please send any piece of news, on NETLAS activities or anything else happening that may be of interest to the NETLAS community, to Ramona Cernat: R.Cernat@kent.ac.uk and to Adrian Podoleanu: ap11@kent.ac.uk