

[HOME](#)[DESTINATIONS](#)[VACANCIES](#)[TESTIMONIALS](#)

Fibre-based high bandwidth cabling

A future vehicle communication system comprises multiple multi-media devices connected by high bandwidth cabling. Fibre-optic technologies may prove useful in lowering the cost of installation and increasing the reliability of the system. Polymer or Plastic Optical Fibre (POF) is an attractive medium for providing large bandwidths at low cost in buildings and vehicles. In fact, more and more vehicles are exploiting POF to connect up the ever-increasing number of on-board electrical devices.

The goal of this assignment is to develop and prototype a POF-based vehicle network by: a) investigating suitable COTS hardware solutions for realizing the POF network using existing Ethernet-based switching devices, (b) creating a dedicated POF conversion device, and (c) to study the characteristics of POF cabling vehicle networks (e.g. ease-of-installation, cost, robustness).

Job Requirements

The Student must be interested in:

Hardware

The Student must have experience with:

Electronic design , Telecommunication, Data networking

About Thales:

Thales Land & Joint Systems is part of Thales Nederland and member of the international Thales Group. Thales is a global technology leader for the Aerospace, Space, Defence, Security and Transportation markets and has approximately 68,000 employees in 50 countries. With its 25,000 engineers and researchers, Thales has a unique capability to design, develop and deploy equipment, systems and services that meet the most complex security requirements.

Thales Land & Joint Systems develops and manufactures high quality integrated communication systems for both commercial organisations and defence and has approximately 330 employees including 150 engineers working in Research and Development.