Elbit Systems Summer Internship 2019, TAU:

Position#1:  *Modem Developer for implementing a Channel Simulator for New Generation Products.*

**Company:** Elbit systems Land and C4I, Radio & Communication Group

**Location:** Poleg Industrial Area, Netanya, Israel

Elbit Land is a global leader in the development of military systems and products in response to current and future operational needs. Specifically, the Radio department focuses on developing state-of-the-art communication systems for soldiers to help them in the battlefield, be it personal hand held radios, through to systems running in vehicular orientation.

**Job description:** The student will take an active part in the Modem R&D team that develops the next generation of radio products. The student will be required to develop a digital channel simulator in a MATLAB environment and then implement it at the ZYNQ-Ultrascale platform. This will include learning the in-depth details required to achieve radio communication in different tactical environment. The digital channel simulator will allow a generic configuration of the channel including: number of rays, different delays, frequency and phase offsets. The student will be responsible for the development process including: algorithm, design, implementation and testing, as an inherent part of the internship, the student will be exposed to the ZYNQ family architecture development and design.

**Requirements:** C, VHDL, MATLAB, basic digital communication knowledge, Signal Processing – advantage

**Students:** graduate students or undergraduates in the final stages of their studies

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