Elbit Systems Summer Internship 2019, TAU

Position#2:  *Modem Developer for Simulating Code efficiency for New Generation Products*

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

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 battle field, be it personal hand held radios, through to systems running in vehicular orientation.

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

**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 simulate in MATLAB environment code efficiency in several communication scenarios. This will include learning the in-depth details required to achieve radio communication in different tactical environment. The student will be exposed to code role in secure communication solution. The Simulation will enable comparison of different codes in terms of performance and complexity. The student will be responsible for the development process including: algorithm, design, testing, as an inherent part of the internship, the student will be exposed to different communication scenarios and implementation considerations.

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

**Students:**  Msc. or PhD student for Communication or Signal Processing

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