



## **Analysis of methods and algorithms for jamming and to prevent and counteract jamming the GPS signal**

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The Air Force Institute of Technology in the framework of scientific research is implementing the project, which aims to develop methods for jamming of signal from the GPS system and develop algorithms and methods to counter jamming. The results of tests created two pilot solutions which will fulfill two main goals - signal interference and counter jamming. The project in it's first phase entails the development of methods for spoofing a GPS signal and sending:

- a) issued geographic coordinates different from the original ones,
- b) jammed GPS signals, which will unable to determine to determine real coordinates on a jammed receiver.

During the research, measurements were made using two receivers Septentrio PolaRx3e, Trimble GeoXH handheld receiver, antenna dedicated Septentrio PolaNT, Trimble Zephyr and directional antenna. Prepared poster presents results of measurements made in a series of experiments designed to determine an optimal configuration for generating a signal interference. Another element presented in the poster is an algorithm that detects interference and generates data for safe navigation after loss GPS signal.