Annotation

Pre-diploma practice was held at the "Promvitech" enterprise, which is engaged in the manufacture of devices for contact and contactless measurement of vibration devices.

The main directions of LLC Promvitech activities are:

– Development of modern systems for measuring vibration of shaft rotary machines.

– Optimization of the method of measurement and improvement of indicators by changing certain characteristics of the inductance coil of eddy current sensors.

– Calibration of piezoelectric sensors.

– Designing optimal and improved enclosures for contact vibration sensors.

During the practice I:

• Acquainted with vibration measuring devices. In particular, he studied the structure and principle of the eddy current sensor (proximeter).

• Simulated the electrical circuitry of the eddy current sensor in the Proteus program.

• Investigated the dependencies of the output signal of the proximeter from the voltage change on the resistors in the electrical circuit.

• Dependent on the output voltage from the size of the gap between the sensor and the measured device.

• Engaged in the modeling of the piezoelectric sensor housing in the SolidWorks program.