**Simonas Daukantas Gymnasium**

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**Final work of the long-term engineering education project:**

**Language:**

English

Annotation

This paper describes the creation and implementation of one of the possible work automation options: the development of a 5 – axis robotic arm – manipulator. The development of the device involved creating a 5 – axis robotic arm – manipulator prototype, writing a control algorithm, and developing a mobile phone application to control it. The paper consists of an introduction, theoretical background to the topic, prototype manufacturing, control algorithm development, mobile phone application development, results and reflections, conclusions, appendices

Key words: Automation, 5 – axis robotic arm – manipulator, programming, algorithm.