

## **Abstract**

Research Title: The Development of Virtual Laboratory Software for CNC Programming Training in a General Math-Science Course

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Year: 2011

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The purpose of this research is to develop a virtual lab software to use as a part of learning activities in a general math-science course. With the developed software and the designed learning activity, students will realize that course materials they learnt can be applied to a CNC programming which is world-wide used in manufacturing industries. The developed software (Java application) can display the result of user-input code (G-Code) in 2D graphics. It is not only able to verify the correctness of input codes, but also enhance students' creative. The virtual lab software has a very small size and much cheaper than a simulator software or a real machine.

