

Research on the G-Code generation process for CNC machines and application of G-Code generation software for 3-axis CNC machines

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Abstract: This topic aims to study the automation process of generating G-Code for CNC machines to optimize production efficiency. Through a combination of theory and experimentation, the project will develop a software system to generate G-Code for 3-axis cutting tasks on CNC. The goal is to minimize programming time and increase the flexibility of the machining process. The expected results of this topic will provide a practical application solution, contributing to improving production productivity in the manufacturing industry.

Keywords: automation process, G-Code, software system, 3-axis CNC, production efficiency