

Central Program Distribution to CNC Machines (W-Stick)

Sending G-code programs to several CNC machines from a single point

Programs are sent from one point; operators start jobs without loading anything at the machine

CLIENT	Automotive supplier Anonymous
INDUSTRY	Otomotiv
PROJECT TYPE	Özel Yazılım
DURATION	1 months (05/2024 - 05/2024)
TECHNOLOGIES	C# SQLite XAML WPF (.NET) Gömülü Linux

Send a program once, have it ready on every machine

A USB device and management application that distributes G-code programs to CNC machines of different makes from one point. No changes are needed on the machines.

Highlights

6 CNC machines in testing	3+ Controller makes	1 Central sending point
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The problem: the program is on a stick, the job is on a machine

Job programs (G-code) usually reach CNC machines on a USB stick: prepared in engineering, copied to a stick, carried to the machine and loaded. If the same part runs on several machines, every step repeats for each one. Controllers from different makers make a central solution harder; each maker's network option differs and some machines have none. The one thing they all share is the USB port.

- Send a program from one point to several machines at once
- Work without changing software or settings on the machines
- See centrally which program is on which machine
- Record who sent which program, and when

To the machine, just a USB drive plugged in

Every machine on one screen

Carrying a stick versus W-Stick

Brand-independent, because USB is the common language

What it makes easier on the shop floor

Management application screens

A repetitive task on your shop floor?

