

CAD-2-PATH

INTUITIVE CREATION OF
COMPLEX ROBOT PATHS



Fast generation of surface-true paths for robots
based on CAD data through a web tool

Fast Robot Programming Through Intuitive Web Tools

The programming of robot movements today frequently still remains time-consuming and complex.

CAD-2-PATH enables intuitive creation, modification and reuse of even extremely complex paths in no time. Using the web app (for example on a tablet), the user directly “draws“ in the 3D model, which was created from CAD data of the workpiece. The path adapts automatically to the surface of the workpiece and can be exported independent from the robot or can be executed immediately, for example with ROS-Industrial. At the FZI, CAD-2-PATH becomes possible through the following technologies and competences:

- ROS-Industrial expertise for robot control, system integration and visualisation
- Robot-independent path and through FZI Motion Pipeline robot-independent execution as well
- Intuitive web-based apps for system-independent visualisation, including on tablets or smartphones
- Adaptivity through innovative manipulation strategies and robot-independent add-on force control

The FZI Research Center for Information Technology at the Karlsruhe Institute of Technology is a non-profit institution for applied research in information technology and technology transfer. Its task is to provide businesses and public institutions with the latest research findings in information technology.

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