

# THEOPRAX A SPECIAL METHOD FOR DEVELOPING PROJECT WORK FOR SCHOOL PUPILS INTEGRATED IN MICRODIDACT WITHIN THE MICROTEC ACADEMY, GERMANY

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*The cluster region of Baden-Württemberg is characterized by high-performance industry and science. Most of the leading-edge enterprises and many highly-innovative companies are located in this area. MicroDidact was founded within the MicroTEC Academy at Furtwangen University (HFU) to encourage the interest of young people in modern and innovative technology. The project is supported by both state and local authorities, as well as by trade and industry.*

## **TheoPrax organization**

- 19 years-experience in Germany
- Successful completion of more than 1500 projects
- International activities in Brazil and Austria
- Numerous training programs for teachers

## **TheoPrax methodology**

- Link between school, university and industry in cooperation with teachers
- Guidance for teachers working on projects with external partners
- Real-life project work (requested by industry partners/carried out by students )
- Motivation of students to work independently

## **Example projects**

### **TheoPrax, Furtwangen**

- Design of app-based traffic information system for public transport in combination with other systems, e.g. e- bikes, taxis, car-sharing, etc.
- Development of safe-coding systems for automotive industry
- Development and construction of automatic waffle-maker

## **Future targets**

- Develop certificate to be used later at university level (prior learning achievements / credits)
- Adjust workload of teachers to take into account effort invested
- Find cooperation partners in other countries and spread TheoPrax methodology