

"There are **new challenges** that I can tackle everyday to continually improve things."

# MAKE IT WORK



# SMARTER

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## SENIOR EMBEDDED SOFTWARE ENGINEER WITH POWER ELECTRONICS BACKGROUND (CONTROL ALGORITHMS) (m/w/d)

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### These are your tasks:

- Leading projects from power electronics area from SW side.
- Software Development in power electronics projects, especially battery chargers and inverters.
- Bare-metal programming (C language).
- Implementation of active PFC topologies (e.g. totem-pole) control.
- Implementation of DC/DC converters (e.g. LLC) control algorithms.
- Software testing and verification.
- Documentation of solutions and software architecture.
- Analysis of customer requirements.
- Maintaining the current code, libraries and architecture of the software under development.
- Mentoring junior software engineers.

### Who we are looking for:

- Minimum 8 years of experience in bare-metal embedded systems programming (C) in the area of power electronics, especially charger and inverter applications.
- Technical education.
- Knowledge of low-level programming (bare-metal) of ARM core microcontrollers, including those without FPU.
- Knowledge of power converter topologies (e.g. phase shift full bridge, LLC, etc.) and control algorithms (e.g. PID, feedforward, etc.)
- Knowledge of active power factor correction circuit topologies (e.g. boost, totem-pole, etc.)
- Knowledge of digital and analogue electronics to read schematics and work with hardware easily.
- Knowledge of version control systems.
- Knowledge of English at a level that allows working in an international team.
- Orientation towards teamwork and independent execution of tasks.
- Problem-solving mindset.

**Work location:** Wroclaw

**Job Level:** Professional

**Working time:** Full time

**Employment contract:** permanent

**Division:** Diehl Controls

**Start:** asap

## These are your potential benefits



Free water



Flexible working hours



Onboarding program



Family-owned company



Food allowance

## Achieve what matters, with Diehl.



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