



# Example of Power Electronics Engineer Job Description

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Our innovative and growing company is hiring for a power electronics engineer. If you are looking for an exciting place to work, please take a look at the list of qualifications below.

## Responsibilities for power electronics engineer

- Define control software and data interfaces (communications, protocols and content)
- Lead discussions relating to power electronics with our customers on a technical level regarding introduction and control of data vehicle drive train communication
- Using your expert software knowledge to support the (HIAMS)EU inverter team
- Responsibility of inverter control algorithms including specification of CAN and Flexray commands and architecture
- First point of contact for our customers for technical discussions and delivery of software related solutions
- Analysis of test and validation results and defining development actions
- Presenting software development and design results to our customers
- Generates software for digital controls of high voltage power electronics
- Implements, integrates and supports software for power electronics controls
- Performs simulation of software operation in a virtual prototype environment (Software-In-the-Loop)

## Qualifications for power electronics engineer

- Knowledge of Power Electronic Control algorithms – including Matlab/Simulink Application

- Master's Degree in Electrical Engineering, preferable specialized in Power Electronics
- Good knowledge in power converter topologies, design, control and modulation
- Fluent English, good communication skills