

We are looking for motivated & brilliant software engineers wanting to work in the field of high voltage batteries.

HV Battery Software Engineer (C/C++) (f/m/d)

About Munich Electrification

Munich Electrification is an innovative company founded with the aim of accelerating the transition to electric mobility. We develop innovative battery management systems for electric vehicles for our global customers. Our international team is composed of highly motivated, exceptional young engineers. We offer a relaxed and friendly work atmosphere with flat hierarchies. As a small and specialized team, we are well-aware of the importance of each individual colleague and support and promote each employee according to their abilities and needs. Our office with adjacent prototype and testing lab is located in the heart of Munich at the Heimeranplatz.



Your Role & Responsibilities

As a HV Battery Software Engineer you work on the development of the software which is controlling the high voltage batteries in multiple different customer vehicles. You are part of an expert team of system, hard- and software engineers on battery management systems which are among the world-leading ones regarding safety, features and costs.

You work involves the full range of software engineering for our battery management systems:

- Controls engineering & modelling of complex systems
- Parameter estimation methods and models (Kalman filters, supervised learning)
- Managing and handling of complex state machines to ensure the functionality of the HV battery
- Complex analog & digital signal processing (CAN, LIN, SPI, ethernet)
- Integrate the software on OS level and ensure its real time capability in multiple different frameworks (bare metal, vector/Autosar, micrium OS, PXROS)
- Work on the low-level drivers that controls the microcontroller and its peripherals.

Further you would help to:

- Ensure & improve the functionality of the battery management algorithms on system level
- Ensure the software development follows the necessary automotive safety standards (e.g., ISO26262)
- Design the software architecture regarding integration, validation and mass production
- Integrate the software in our CI/CD tool landscape
- Cover all requirements with necessary testcases
- Bring-up the different customer batteries and vehicles

Your Profile

- Successfully completed university degree in an engineering field
- Ideally more than 3 years of working experience in software engineering (in C/C++)
- Knowledge in the field of microcontrollers and applicable tools
- Highly motivated, willing to take responsibility and ownership of a project
- Creativity, curiosity and enthusiasm for innovative electronics solutions for electric vehicles
- Preference for working in teams and strong communication skills (English; German favorable)

Our Offer

- The chance to be part of a highly innovative, agile, and unique team with the most prestigious customers in the automotive sector
- A deeper knowledge around electric vehicle batteries, battery management and electronics development
- Healthy lunch and fresh snacks everyday
- Free access to the Fitness Center right next to us
- An exciting working environment and various inspiring team events
- An adequate and competitive compensation

Ready for a new challenge?

We are looking forward to your application!

E-Mail

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Contact Person

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