

Electronics Designer (m/f/d)

Stuttgart

As our electronics designer, you are the wizard responsible for some of the secret sauce behind our software-defined batteries, which is... the hardware! At instagrid, we develop all of our electronics hardware inhouse, combining digital power control and high-end lithium-ion battery cells in entirely new ways. Building on our proven technology, you will design and implement the controllers for our next generation of smart battery modules. Together with your peers you verify and test your designs and ultimately drive industrialization with our manufacturing partners, backing every part of the product lifecycle with your expertise.

About instagrid

instagrid is a pioneer of software-defined batteries driving the change from analog and stationary to digital and mobile electricity. We create a unique portable power supply with which we improve the way people perform their work: flexible, independent and efficient. Our intuitive high-power portable battery system makes work easy – no matter when and where. As an employer we believe it is our task to provide freedom and resources to our employees to achieve maximum impact in shaping a company that is led by the core values of fairness, participation, equality and transparency.

What we offer

- Shape the company by contributing with your individual strengths in a diverse team
- Contribute at eye level to develop an innovative and unique technology that really matters
- Experience the speed of a start-up coupled with many years of tech industry experience
- Grow your skills within a world-class team
- Take control of your workday at a workplace in the midst of a start-up co-working landscape characterised by innovation and ideas
- Receive competitive compensation and benefit from a family-friendly working environment

Your tasks

- Design analog and digital circuits for our smart battery modules and system functions
- Select components and take ownership of the BOM
- Craft circuit boards for demanding mixed-signal + power applications
- Carefully consider EMC, thermal design, robustness, safety and cost
- Apply, configure and debug software for embedded microcontrollers

- Order and verify prototypes together with the product engineering team
- Drive industrialization together with our EMS partners
- Define testing procedures and quality measures

What we are looking for

- You have previously demonstrated your stellar electronic design skills, ideally backed by higher education in a MINT subject or specific training in the field of electronics
- You know what it takes to bring a PCBA to mass production (or you are ready to learn it)
- You master your favourite ECAD software, e.g. Altium Designer or Autodesk Eagle
- You back your designs with simulations like SPICE
- You like to take responsibility and work independently
- You have strong analytical skills and enjoy working on demanding tech topics
- You feel comfortable with embedded software development, ideally in C/C++
- You are curious about modern batteries and digital power electronics or have worked in the field before
- You are proficient in English, spoken and written. German is considered a plus

That sounds like you? We are looking forward to your application!
Contact Sebastian at jobs@instagrid.co

