



HEIMDALL POWER

Senior Electronics Design Engineer

THE POSITION: As a Senior Electronics Design Engineer, you design and build the systems that are the heart of Heimdall Power's business. You will be responsible for developing, maintaining, and testing electronics hardware for the sensing system. Your work has the potential to shape the digitization of our electrical grids

WHO WE ARE: Heimdall Power is a young Norwegian technology company established in 2016. We offer a rapid transition to fully digitized grid assets through low-cost, easy to install, self-powered sensors that provide input to advanced models and algorithms. Our goal is to use machine learning to predict line faults before they happen, minimize blackouts and improve maintenance efficiency. With better capacity control, energy distribution can be optimized. Heimdall's technology has the potential to increase the average capacity of the grid by more than 25 percent. The electrical grid is the largest man-made machine - It spans the globe, providing structure, balance and life to our energy system. It is essential infrastructure to enable a sustainable, green energy future. Heimdall Power is backed by established VCs and industrial partners. This is your chance to be part of an exciting journey towards a sustainable future.

WE ARE LOOKING FOR: Heimdall Power is seeking a passionate Senior Electronics Design Engineer to join our Technology team in Oslo! As an Electronics Design Engineer at our company, you will be responsible for executing a complete HW development lifecycle. You would preferably have a good understanding of embedded software, and experience with various microcontrollers and sensors. You will be part of a highly skilled multi-disciplinary dynamic organization creating and commercializing new technologies that enable us to deliver on our mission to digitize the electrical grid.

Responsibilities:

- Design and test electronics hardware from start to finish
- System specification and design taking manufacturing aspects into account
- Test and validation of solutions as well as hands-on troubleshooting
- Understand, adopt, and refine best design practices
- Sense of ownership and pride in your performance and its impact on company's success

Your qualifications:

- BS/MS in Electronics or equivalent
- Advanced knowledge and experience with schematics and PCB layout
- Strong understanding component and sensor selections
- Experience with environmental testing and accelerated lifetime testing
- Ability to work in team with other engineers and functions, gather information, and share knowledge
- Strong understanding of digital design, microprocessor, and CMOS device operation

Preferred qualifications:

- Worked on projects on spare time
- Passionate about inventing new product design and technical solutions
- Analog circuit design understanding and experience
- Experience with communication protocols like UART, I2C, SPI and I2S
- Knowledge of test methodologies, writing test plans, creating test cases and debugging
- Understanding and experience with embedded software
- Experience with types of networking such as mesh networks, LTE-M, CAT-M1, LORA and Bluetooth
- Experience with HDI PCB and BGA surface-mounts
- Experience with high voltage systems
- Experience with EMC optimization

For further information about the role, please contact Øyvind Teigen on email [**oyvind.teigen@heimdallpower.com**](mailto:oyvind.teigen@heimdallpower.com)