

Electrical Engineering Manager

Cleantron is looking for an experienced Electrical Engineering Manager that is interested in managing a team of +/- 15 Hard & Firmware professionals.

We are interested in a candidate with a solid background in Hardware & Firmware Engineering and with a track record in delivering new products and solutions.

Cleantron

Cleantron develops and produces lithium batteries close to Amsterdam in Nieuw Venneep. Cleantron batteries are used in a variety of markets, at home and abroad. Think of electric vehicles such as special e-Bikes and e-Scooters, Light Electric Vehicles, Automatic Guided Vehicles (AGV's) and Construction Equipment. Good battery design is very important for manufacturability, safety and battery life. Cleantron is developing batteries for new applications where these aspects are key.

We put the quality of our products centrally and to guarantee this, we continuously work on improving our product designs, development and production processes.

The embedded Battery Management System (BMS), together with the Lithium-ion Cells, are at the heart of a Cleantron Battery and guarantees the safety and service life of the Battery. The BMS ensures, among other things, protection against many extreme conditions (over-voltage, under-voltage, over-current, etc.). In addition, various important data for the customer are collected and calculated, such as the "State of Charge" and the condition of the battery. Finally, based on customer-specific protocols and interfaces, the BMS provides communication between the battery and the battery application. This often must be coordinated with the motor controller or VCU of the vehicle or application so that in an extreme condition (for the battery) the vehicle stops safely or that in an imminent extreme condition the motor controller regulates back in time to prevent the battery from switching off.

Electrical Engineering Manager

The Electrical engineering Manager is Leading the day-to-day business of the Electrical department. He or she divides the different Electrical Engineering tasks between the electrical engineers and is informed about the Hardware and Firmware tasks and challenges of all active projects. He or She is involved in creating sub tasks for junior engineers. To make sure that the tasks can be executed. This is done in cooperation with the lead Hardware, Firmware and Test engineers and the project managers of the different projects.

All Hardware and Firmware engineers (+/- 15 FTE) will report to the Manager Electrical Engineering.

The Electrical Engineering Manager reports the CTO. He is also involved in setting the long-term technology planning of the company.

In addition, the Electrical Engineering Manager may act as project manager for multi-disciplinary development projects (the development of new batteries and BMS platforms). Typical projects teams involve Mechanical engineers, Hardware Engineers, Firmware Engineers, Test Engineers, Production and Supply Chain Engineers. A typical project teams size is 6 FTE.

Education

- Bachelor or Master in Electrical Engineering, with a specialization in Hardware and or Firmware development

Relevant skills

- Firmware Development in C
- You are familiar with the V-model
- An understanding of hardware
- A good understanding of requirements management
- A good understanding of Functional Safety (ISO 26262 and ISO 61508) is a benefit
- Experience with validation of Embedded Systems
- Experience in Altium is a benefit
- Able to make and record structured problem analysis
- 5+ years of work experience
- You master the English language
- People management skills

We offer

- Dynamic international working environment in an innovative and growing company, with an enthusiastic team, and room for personal input. We also offer room for further development of your skills (on the job or by offering specific training).
- Full-time appointment (38 hours), however part-time is also negotiable.
- A competitive salary, depending on education and experience.
- Personal training options

Interested?

If you recognize yourself in the profile above, apply by sending your CV and motivation letter to Padina Basirat (hr@cleantron.nl). More information about Cleantron can be found at www.cleantron.nl, for questions about the vacancy also feel free to contact Padina Basirat.