



Smarter. Greener. Together.



Delta Energy Systems (Germany) GmbH is belonging to Delta Electronics. Delta, founded in 1971, is a global provider of power and thermal management solutions. Its mission statement, "To provide innovative, clean and energy-efficient solutions for a better tomorrow," focuses on addressing key environmental issues such as global climate change. As an energy-saving solutions provider with core competencies in power electronics and automation, Delta's business categories include Power Electronics, Automation, and Infrastructure. Delta Energy Systems is well known as specialist for Automotive, Industrial, Medical, Electric Vehicle and Server Networking solutions. Delta Energy Systems as solution provider will be your right partner for world-class technology and quality, challenging designs, fitting exact to your application.

Bachelor or Master Thesis: *Digital Control Design for Data Center Power Supplies*

Location: Soest

Your challenge

- Development of firmware/software for innovative embedded systems
- Projects of Power supply, Power shelves and Battery shelves for High Performance Computing (HPC)
- You analyze and improve the control loops of a modern power supply's PFC or LLC stage
- You Improve a simulate model of an existing power supply's using Simulink
- You generate C Code form Simulink model and integrate it with other SW modules on DSP.
- You verify your simulated design and compare against real world measurements

Your profile

- Studies of electrical engineering
- knowledge in model-based software development (Matlab/Simulink)
- knowledge of basic control system
- knowledge in embedded C programming
- Independent working style, commitment, creativity, flexible and ability to work in a team

Our offer to you

- You are part of the research and development team.
- You get the opportunity to learn from experienced engineers
- You are offered a friendly working atmosphere and a constructive working environment leaving much room for new possibilities and ideas

Should you be interested in this thesis offering, you can apply online by scanning the QR code or via our homepage (see below). Please submit your latest score card (Notenspiegel). An application letter is not necessary.

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We are looking forward to hearing from you!