Senior Applications Design Engineer

Play a key role in the design of new ICs that will make power conversion safer and more efficient

Role

Heyday integrated circuits is looking for a Senior Applications design engineer with 10+ years of experience, to grow its international analog mixed-signal power management application team. The position requires a proven track record of bringing integrated circuits from concept to mass production. You will have a key role in the design of reference designs, EVM's and you will contribute to the definition of our analog and mixed-signal IC circuits.

Responsibilities

- Develop Evaluation Modules to showcase our product lines (isolated gate drivers and more)
- Develop application topologies as reference designs using Heyday's product line
- Support customer design-in's and developments
- Provide inputs to product definition and specifications for existing and future product families
- Support IC test and characterisation
- Research, create and write Application Notes, supporting documentation, articles and papers for Heyday's website and publication in relevant publications and journals
- Reports on design results through design reviews, in accordance with company quality requirements and resolves action items generated as a result of these reviews
- Detailed documentation, evaluation and debugging of applications and Integrated Circuits

Who you are & the skills we seek

- A curious and creative person
- Autonomous and self-motivated, willing to learn and excels through times of growth, and change
- Knowledge of analog/mixed-signal design and specifically isolated semiconductor products, e.g. Gate Drivers and data isolators
- Good knowledge of MOS transistors and analog circuit design
- Knowledge of digital circuits is also very helpful
- Advanced understanding of layout trade-offs for performance and size
- Previous design experience in one (ideally more) of the following areas:
  - High frequency switching converter design
  - Power supply control theory and design
  - High frequency power magnetics
  - Power converter topologies (Half-Bridge, Full-Bridge, buck, boost, charge pumps, rectifiers)
- Power levels involved – 1kW to 10's of kW designs
- High frequency power circuit operation - i.e. second order effects.
- Knowledge of industry standards and regulations
- Markets involved that may be interesting: EVs, Motor drives, OBC, Solar inverters etc.
- Switching converter circuit simulations
- Capable of doing hands-on lab measurements
- Knowledge of some of the following Software Tools: LTSpice, Spice, Maxwell, MATLAB, Cadence
- Fluent in English with good written and verbal presentation skills
- BEng, M.Sc. or Ph.D. in Electrical or Electronic Engineering
- You need to be eligible to work in France
- You adhere to the values of Heyday

What we offer

- Permanent contract based in near Sophia-Antipolis (Cote d'Azur, France)
- A dynamic workplace with lots of potential for (fast-paced) career growth
- A place to learn and develop new skills
- An attractive compensation package including:
  - competitive salary
  - performance related bonus
  - stock-options plan
  - comprehensive healthcare insurance
  - flexible working hours

About Heyday

Heyday is an innovative start-up that is active in semiconductor products in the space of power management integrated circuits. For more information please visit our website: www.heyday-ic.com.

To apply, please click on the "apply" button of the relevant job at www.heyday-ic.com/careers.
For additional information please contact us www.heyday-ic.com/contact.