



## Analog Behavioral Modeling Engineer for Automotive Power Applications (f/m/div)\*

### Job description

Do you enjoy being part of a team of experts working on the edge of technology? Then join us as Analog Behavioral Modeling Engineer and become part of a successful and growing team on the leading edge of automotive technology, by helping us developing behavioral models targeted for analog simulators for a diversity of automotive products

As a Behavioral Modeling Engineer you will be responsible for the development (from concept to implementation and verification) of full chip behavioral models targeted for analog simulators for various types of automotive products that are delivered directly to external customers

In your new role you will:

- Develop **full-chip** behavioral models targeted for **analog simulators** for a various range of product complexities (eg: Power Switches, LED drivers, DCDCs, Bridges, Motor Drives)
- Have full responsibility for **behavioral models development** and **verification** according to requested specifications
- Align with stakeholders on model requirements (eg: accuracy, complexity, feature set, etc).
- Define model development and verification plan in sync with existent modeling methodology
- Deliver packages including **application notes**, **test benches** and **model documentation**
- Support for **behavioral modeling related topics** within product development or application engineering
- Contribute to **defining** and **improving behavioral modeling methodology** (eg: investigate new tools, simulators, modeling languages)

### Profile

You have a good analog understanding which helps you derive an abstract model from an IC concept in a hardware description language (eg: PSpice). You have an application view and aim for understanding how your model integrates into the customer system. You partner with the application engineer to capture model requirements. You are motivated to continuously look for more efficient ways to describe analog concepts. You like working with multiple tools and simulators and getting an in-depth view /understanding of the simulation engine and its behavior. You are an organized person and this is seen in your modeling code structure and documentation.

### At a glance

Location: **Bucharest (Romania)**  
Job ID: **330771**  
Start date: **immediately**  
Entry level: **1-3 years**  
Type: **Full time**  
Contract: **Permanent**

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### Contact

Mihai Craciun



You are best equipped for this task if you have:

- A bachelor's degree in Electronics Engineering, Applied Electronics or equivalent degree.
- Good understanding of semiconductor physics and circuitry
- Experience with analog modeling languages (Spice, PSpice)
- Previous hardware design experience is valuable
- Good knowledge of Spice circuit simulators (eg: OrCAD, Simetrix, LTSpice, TINA, MicroCap).
- Know-how in Cadence tools and Virtuoso environment would be a plus.
- Passion for mathematical abstraction, numerical models is a plus
- Good command of English Language

