Position: Software Engineer - AI based Functional Verification
Employment Type: Internship with option for Master’s Thesis
Duration: 12 months
Location: Cadence Design Systems GmbH, Feldkirchen Germany

At Cadence, we are committed to fostering a culture of innovation and leadership in the tech industry. We are currently seeking a highly motivated Software Engineer to join our Application Engineering team. This role focuses on enhancing Cadence’s functional verification tool for behavioral models through the development of an application (“App”) utilizing AI technologies.

Key Responsibilities

- Engage with the Cadence platform and the App to understand and integrate existing frameworks into daily tasks.
- Contribute to the completion and enhancement of our model library, including migrating existing models and their test environment.
- Drive the implementation and refinement of behavioral models, encompassing design, development, troubleshooting, debugging, and support of software products.
- Develop and maintain documentation related to the application, ensuring all processes and models are accurately captured.
- Conduct AI-focused research and prototyping to support HDL behavioral modeling, including the generation of checks/assertions and validation techniques to improve model testing and documentation.
- Collaborate closely with Cadence R&D to define problem statements and develop innovative AI-assisted solutions.

Qualifications

- **Technical Skills**
  - **Mandatory**: Strong experience with Linux and programming. Familiarity with Markdown, Python, Typescript, and Nuxt
- **Good to Have**: HDL, VLSI, HW/SW understanding, SV/SVRNM/VAMS modeling experience, and experience with EDA tools like Virtuoso and Xcelium
- **Nice to Have**: Debugging skills, AI modeling, and problem-solving capabilities

- **Soft Skills**:
  - Excellent communication abilities and proficiency in English.
  - Solution-oriented with a positive attitude and a proactive approach to enhancing processes within a dynamic environment

- **Education**
  A degree in Computer Science, Engineering, or a related field with a focus on Digital Simulation, Data Mining, Data Analytics, or Machine Learning is preferred.

**Timeline**:
- The position is advertised as an internship for one year.
- Start date: May/June 2024

**Master’s Thesis (optional)**:
- As part of the internship we support you in defining an appropriate topic and writing your master’s thesis

**Career Benefits, and Growth**:
Join a team that is at the forefront of technology innovation in AI and functional verification. Opportunity to work in a dynamic environment that values continuous learning and development. Engage in projects that directly impact the efficiency and capabilities of Cadence’s software solutions across the global tech landscape.

Benefits we offer you:
- Competitive Salary
- Working in a hybrid model in a modern office concept
- Meal vouchers
- And so much more, do not hesitate to contact us

**Apply Today**:
If you are passionate about AI and looking to make a significant impact in the world of technology, we would love to hear from you. Join us at Cadence, where innovation meets excellence. The position is open now.

Please send your application to

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