

DSP and AI/ML Hardware Design Researcher

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Company: MediaTek

Location: West Lafayette

Category: other-general

Job Description

MediaTek is seeking an exceptional researcher to put your ideas in actions. MediaTek is seeking an exceptional researcher to drive the next generation energy-efficient circuits and systems for communication and computing areas. In this role, you will work on identifying new and novel fundamental technologies, leading a virtual team to hands-on develop key IPs and prototypes, and helping to bring them into production. The ideal candidate is open-minded, forward looking, and balanced with practicality.

Experience (may include Ph.D. works) in the related areas is needed. This candidate must be familiar with design and production in nano-meter CMOS technology, and have experience in designing substantial part of wireless or wireline transceivers.

You must be well organized and detail oriented. Good interpersonal and communication skills are critical. Within your capacity, you will have total accountability and ownership of tasks. Don't let this outstanding opportunity pass you by!

Specific responsibilities include, but are not limited to:

- Exploring technology and market opportunities for 4-10 years out

- Pioneering architecture, circuits, algorithms, and systems that are unconventional and ahead of academic research while be able to ramp to production (RTP) in a few years. Areas may include energy-efficient wireless and wireline communication transceivers and systems, analog computing, sensing, etc.

Hands-on working on design of new fundamental IPs, test strategies, test setup, package-level integration, PCB, and characterizations

Setting and maintaining detailed technical specifications and schedules

Presenting works to both inside and outside the company

Supporting functional teams to bring the new technology to production

Working with business units to roll out products with the new technology

Engage and coordinate with university research for advanced technology development

Qualification

[REDACTED]ed area or MS Electronic Engineering with 5+ years of work experience

Knowledge and skills in the following areas are must:

[REDACTED]
Digital signal processing with understanding of fixed point implementation

Computer programming

RTL design and implementation challenges

Machine learning

Knowledge and skills in the following areas are preferred:

[REDACTED]
Knowledge in RF/analog/mixed-signal circuits and systems

Advance signal processing algorithms

Data converters

Power management

Electromagnetics

High-frequency/ high-speed measurements

Heterogeneous integration

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