



TUSK IC

Senior millimeter-wave ASIC designer

Work environment

Tusk IC is a fabless millimeter wave IC design company, located in Antwerp, Belgium. Founded in 2018 as a spin-off from the KU Leuven, it is a growing start-up at the leading edge of mmWave technology. We have an international team and value collaboration, clear communication and technical excellence.

With 5G, 60GHz communication, imaging and self-driving cars all relying on mmWave to break through, Tusk IC provides state-of-the-art design solutions for integrated circuits from 3GHz to 300GHz and beyond in CMOS and SiGe technologies.

Come and join us in surfing the mmWaves!

Position description

As senior millimeter-wave ASIC designer, your focus will be to strengthen and complement our existing team of designers. You will work on R&D and implementation of state-of-the-art ASICs for the next generation of mmWave products, including feasibility study, design, layout, simulation, package design and measurement.

You will become a core member of our team, with a large influence on business and technical decisions. Clear communication during client interactions is essential. Our clients are leading companies in 5G, imaging and automotive domains.

Responsibilities and challenges

- Spec definition and system-level design of mmWave modules and components
- Circuit design, layout and verification of mmWave building blocks
- 2D and 3D EM simulations for interconnect, passives and packages
- Clear and concise reporting, interaction with customers
- Dealing with ambiguity, able to make effective decisions based on limited information/unclear goals
- Come up with creative solutions to new problems
- Prepared to take on ad-hoc tasks

Competences and qualifications

- BSc (Hons) or higher degree (MSc/PhD) in electrical engineering with a focus on analog, RF and mmWave ASIC design
- Experience with full design cycle: specs to measured silicon
- Several years of transistor-level mmWave IC design experience in advanced CMOS, SOI and/or SiGe

- Knowledge and experience with leading IC design tools: Cadence, ADS, Synopsys, Mentor
- Experience in transistor-level layout extraction and verification, DRC and LVS
- Electromagnetic modelling of high-frequency circuits + relevant EDA tools (Momentum, EMX, Peakview, HFSS, CST, ...)
- Experience with design for production (PVT variation, electromigration, aging, DFM)
- Extensive lab experience
- Proficient in a scientific scripting or programming language (e.g. Matlab, Python)
- Eager to learn and willingness to adopt new tools and design techniques
- Clear communication skills
- Fluent in English (written and spoken)

What we offer

- Fancy Art-Nouveau office in Antwerp ('t Stad), conveniently located close to Berchem and Central Station
- Dynamic and exciting start-up environment!
- Contribute to revolutionary products such as automotive radar, 5G and mmWave sensors
- Competitive salary & benefits
- Possibility of stock options
- Gourmet coffee, carefully selected by our local coffee aficionado

Contact information:

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www.tusk-ic.com