



Job Description: Applications Engineer

CML Vision – The first-choice semiconductor partner to technology innovators, together transforming how the world communicates.

CML Values – Trust, Respect, Commitment and Creativity.

CML Guiding Principles – Strong business ethics; culture of quality with a sense of urgency; live and breathe the customer experience; a passion for excellence; inspire our people to innovate.

Position Summary

As an integral member of the Applications Engineering team, you will work closely with customers and internal stakeholders from Engineering, Sales and Product Management to provide technical support and expertise for all CML products. A key focus for the role is the μ RF product range consisting of RF, Microwave and mmWave devices up to 50GHz, but also get involved in the wider product portfolio of voice and data products which includes analogue, mixed-signal and digital baseband solutions. Responsibilities shall include guidance and recommendations for customers, dealing with technical enquiries and hands-on testing of devices and evaluation boards in a fully equipped laboratory, ensuring the overall success of CML products.

Reports to

Application Engineering Manager

Essential Functions / Key Focus Areas

- Provide in-depth product information and design assistance for a global customer base
- Collaborate with cross-functional teams (especially engineering) to provide comprehensive support
- Ability to use RF test equipment such as VSG, VNA, SA and Power Meter to characterize devices up to 50GHz is essential
- RF impedance matching network design and Smith Chart analysis are essential
- Ability to read data sheets and understand parameters such as S11, S21, P1dB, IP3, EVM, ACP, BER, NF and Phase Noise
- Review customer literature and teardown reports to develop full understanding of the application and product architecture
- Familiar with wireless communication standards and markets desirable e.g. RFID, 802.11, 3GPP 4G/5G, EN 300 113, DRM, TWR, TETRA, IoT and SatCom
- Experience of RF & Microwave EDA software such as Keysight ADS
- Understand the competitive landscape and generate value proposition to support sales
- Manage multiple customer enquiries and ensure timely support and completion of tasks
- Circuit analysis as well as schematic capture and PCB layout with emphasis on RF techniques and good design practice
- Knowledge of semiconductor manufacturing and packaging
- RF building blocks and sub-systems such as PA, LNA, PLL/VCO, I/Q Modulator, Filter, Mixers, Superhet and Direct Conversion Receivers
- Build awareness of customers business to help identify new opportunities and support account growth strategy
- Support RF compound semiconductor (GaAs, GaN) and silicon (CMOS, BiCMOS) products

This job description is not exhaustive and subject to change to meet the needs of the business.

- Understanding of RF front ends, radio architecture and system block diagrams (RF to bits)
- PA linearization techniques such as Cartesian Loop and DPD
- Clear and accurate written and verbal communication
- Produce appropriate documentation, presentations, application notes and training material as required to ensure design win success
- Contribute towards internal product development and new product definition

Qualifications and Experience

Professional Experience – Minimum of 3 years of relevant engineering experience desirable.

Functional Experience – High level of technical competence with a strong RF bias and a track record of design win success within the communications and/or semiconductor market.

Industry Experience – The candidate is likely to have experience in an applications engineering or looking for a career move from a design role

Education – Bachelor's degree or equivalent in engineering and/or related technical field.

Critical Competencies for Success

Excellent Communication Skills – Maintains an open flow of two-way communication, exhibiting strong verbal, written and presentation skills, stating expectations clearly and being visible to all stakeholders. Being a good listener is a critical success factor.

Impeccable Integrity – Embodies and practices unquestioned personal and business integrity. Creates an environment of trust and respect by acting with fairness and consistency, keeping commitments, and providing rationale for decisions.

Team Player with Maturity – A results-oriented individual who, at the same time, is the consummate team player who can effectively negotiate with others to achieve win-win outcomes. They will be well respected by management and peers and will be secure in their technical abilities.

Open Minded – A resilient and committed engineer with a passion for excellence; a flexible and open operating style; non-political and non-bureaucratic; someone with a natural and effective consultative approach who will gain the trust and respect of individuals at all levels.

Customer Focused – Live and breathe the customer experience by following a culture dedicated to enhancing customer satisfaction and building strong customer relationships.

Location

The office is located in the market town of Shepton Mallet, Somerset.

Benefits / Package

- Competitive salary based on skills / experience
- 25 days holiday plus bank holidays

This job description is not exhaustive and subject to change to meet the needs of the business.



- Pension scheme
- Private healthcare scheme
- Death in service insurance
- Free on-site parking
- VISA sponsorship (if applicable)
- Relocation package (if applicable)
- Attractive location

Application

Please forward your CV to Arwyn Roberts at aroberts@cmlmicro.com

Further information about CML Micro can be found at www.cmlmicro.com