



Plovdiv, 01.11.2021

Embedded Firmware/Software Design Engineer

3db Access is a pioneer of secure low power single-chip UWB technology with standardized within IEEE 802.15.4/4z scientifically proven secure ranging. 3db UWB IP/IC is in mass production in the automotive industry and provides lowest power consumption on the market for passive entry and start systems and smallest silicon area.

Our technical pursuit is centimeter-precise, low-power and secure UWB location technology. Our market vision is to lead next generation keyless access control to vehicles, buildings, and mobile payments as well as centimeter-precise indoor and outdoor localization for tracking and navigation such as industrial and home automation, wearable technology, and IoT.

About the role

Are you aspiring to apply your engineering skills to embedded firmware and software design for wireless communication System on Chips (SoC), i.e., wireless communication ICs with embedded microcontroller such as RISC-V or ARM? Do you thrive on working in a multi-cultural team and colleagues with strong experience in hardware development? Do you like supporting industrial and university partners? Are you hardworking and have the courage to challenge your colleagues, finish tasks in a reliable way?

If your answers are yes and the main responsibilities below seem attractive to you, please send us your CV and cover letter on <https://www.3db-access.com/contact>

Your main responsibilities will include:

- Contributing to the embedded firmware and software for UWB SoC for the automotive industry
- Implementing firmware on chip and Media Access Control (MAC) layers for advanced distance measurement between two and more devices
- Analysing performance by prototyping and experimenting for real-life applications
- Verifying the embedded design and debugging using prototype PCB boards and JTAG
- Documenting in a precise and timely manner

About you

Technical skills and education

- Successfully completed Master degree
- Strong programming skills in C and scripting languages such as Python
- Precise and clear documenting methodology and written expression
- Proficient verbal and written communication in English

Personal skills and interests

- With you we win a standout colleague, who contributes actively to our team spirit
- High degree of own initiative and interest for interdisciplinary work
- You have strong interest in growing your expertise in embedded firmware design
- You approach problems with curiosity and flexibility, are a good listener, fast learner and take responsibility