CommAgility   **JOB DESCRIPTION**

Job title: Software Engineer

Department: DSP

Reports to: Director of Engineering LTE / 5G Software

Responsible for: None

Job purpose: Is to become a skilled software developer contributing to the completion and deployment of our 5G software for both 3GPP Rel 15/16 5G gNB and UE. The software spans from PHY up to PDCP/RLC and RRM at gNB and to NAS at UE side. Depending on your previous experiences, you will start either in the PHY or Protocol Stack software development domain, and eventually have the opportunity cover both software areas.

Main duties and key responsibilities:

- Implementation of 5G PHY and Protocol Stack algorithms onto processor platforms
- Creation of test cases for PHY and Protocol Stack functionality
- Verification of PHY and Protocol Stack functionality against test equipment such as R&S/Agilent or Commercial UEs
- Debugging of SW implementation errors
- Documentation of implemented work
- Integration of 5G PHY and Protocol Stack with RF
- Integration of 5G PHY with Protocol Stack
- Dealing with SoC HW architecture
- Effort estimation of implementation of SW task
- Reporting on progress of SW implementation
- Handling of customer request related to 5G PHY and Protocol Stack
- Team player and agile SW development practices
- Familiar with SDR and SoC architectures
- Working in a local organisation with talent from all over the world. CommAgility has locations in Germany and England.

Please note the purpose of this job description is to indicate the general level of duties and responsibility of the post. The detailed duties may vary from time to time without changing the general character or level of responsibility entailed.

Start Date: Immediate
This position is based in Duisburg, Germany.

To apply, please email your CV to jobs@commagility.com
Special conditions:

N/A. There are no unusual working hours except in rare cases to complete work. The same rare condition may cause restrictions on holiday, call-out liability or significant travel.

CommAgility

PERSON SPECIFICATION

Job title: Software Engineer

Essential	Desirable
Qualifications and training	
MSc/MEng in Electrical/Communications Engineering or equivalent	
Experience and knowledge	
Significant experience as an embedded C/C++ software developer Working knowledge of Matlab Working knowledge of Perl/Python scripting language	
Skills and abilities	
Ability to read and understand 3GPP rel 15/16 all relevant standards for our 5G gNB and 5G UE products Ability to derive algorithms and /or implementation out of 3GPP rel 15/16 all relevant standards for our 5G gNB and 5G UE products Ability to develop and analyze 5G Algorithm by means of Matlab and/or C language Ability to analyze and develop 5G gNB scheduler implementation Ability to analyze and develop 5G PHY layer gNB and UE features in SW based on abstract I/F description Ability to develop SW I/F toward embedded accelerators and/or HW I/Fs Ability to implement SW test cases suitable for verifying the to be implemented 5G feature Ability to generate and verify 5G test vectors on PHY and Protocol Stack level	

Ability to operate PHY 5G test equipment such as Agilent	
Ability to program Embedded SW C Understand the constraints of Real Time SW	
Ability to program C/C++	
Ability to write Make files	
Ability to write scripts in languages such as Perl or Python	
Ability to understand Intel, ARM, DSP HW, I/Fs and other accelerators on various SoC platforms	
Ability to understand and work with ARM and DSP architecture	
Ability to use embedded Linux and DSP OS	
Ability to work with Teamcity or equivalent build server	
Ability to work with JIRA or equivalent Issue Tracking System	
Ability to handle SW within a gitlab repository	
Ability to document project results within a Confluence or equivalent Wiki project	
Ability to understand and work according company specific ISO-9001 implementation	
Ability to understand and work according SCRUM/Continuous Integration working methods	
Do Customer project reporting to internal project team and/or CA management	
Other requirements	
A willingness to undertake further relevant training	
An understanding and commitment to equal opportunities	