Ahmed Khalid Erlangen, Date 10.10.2018

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**Intel**

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Dear M.Sc. Shakil Ahmed,

My name is Khalid and I come from Egypt. I started my master studies joining the Communication and Multimedia Engineering (CME) program at the Friedrich-Alexander University in Erlangen on October 2014 and on June 2017 I finished my master thesis. Currently I am working as a full time research engineer at the Bright Band department in Fraunhofer IIS. I would like to apply for the position "5G-NR/LTE Firmware Engineer" in Nuremberg Germany.

Intel is one of the leading multinational semiconductor chip maker corporation in the world, with hundreds of thousands employees across the world. Working at Intel would be a great milestone in my career as an engineer. From the experience point of view, I have been working at the Bright Band department in Fraunhofer IIS on several projects in the field of LTE/NR protocol stack development since May 2016. First I had an internship developing using C programming language on Open Air Interface (OAI) simulation environment to implement shorter Transmission Time Interval (TTI) feature for LTE release 15. OAI is an open source software and hardware development of 3GPP cellular networks. During the internship, I learned a lot about the LTE protocol stack specially the physical layer and enhanced my skills in open source software development. Then I did my master thesis in the topic of new uplink multiple access schemes for Ultra Reliable Low Latency Communication (URLLC) in New Radio (NR). During the thesis, I learned about several LTE MAC layer functionalities as I implemented a system level simulator using MATLAB object oriented programming evaluating several Key Parameters Indicators (KPIs). Then I was offered a full time job implementing sTTI physical layer features for LTE release 15 on OAI real time hardware setup. I finished my bachelor studies in Egypt, I did my master studies in Germany and now working as a full time engineer. This experience makes me a flexible and adaptive person regarding different work environments and traveling. I am still relatively young (26 years old), ambition and I learn pretty fast.

Finally, thank you for your time considering my credentials. I am looking forward for your feedback.

Yours faithfully,

Ahmed Khalid