



WIOQnet GmbH  
+49 421 55705826  
contact@wioqnet.de  
www.wioqnet.de

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## Letter of recommendation

To whom it may concern,

I am pleased to provide a reference for Mr. Utkrist Uprety, born May 2, 2000, whose work I supervised during his internship at WIOQnet GmbH from 06.06.2021 to 01.08.2021. During this time, he worked in the research and development department with the implementation of a cryptoless over-the-air key establishment (COKE) algorithm on BLE. His work comprised mainly on a Zephyr RTOS for MCU implementation of the previously mentioned algorithm using anonymous signaling.

His principle tasks were:

- Learn the Zephyr RTOS usage basics with MCUs and how to develop in such an environment.
- Implementing an initial simulation of COKE using a local message buffer.
- Using the Zephyr BLE framework to design the beaconing packets and to correctly filter them.
- Establishing data transfer between Zephyr-enabled devices.

Mr. Uprety showed good knowledge of wireless communication techniques, a sound theoretic background and interest in research. During the time at our company where he worked on his project, he demonstrated appropriate skills using different software development tools and also learned how to use novel development tools such as the Zephyr RTOS platform.

Mr. Uprety worked well in the company, consistently showing his enthusiasm, ethic, and positive spirit. These characteristics, will allow him to be well integrated into further research responsibilities. I recommend Mr. Uprety as a good candidate with potential to grow in both research and industrial institutions.

Sincerely,

A handwritten signature in black ink, appearing to read "Jonathan Bechtold".

Jonathan Bechtold  
Co-founder and Systems Engineer  
j.bechtold@wioqnet.de

WIOQnet GmbH  
Lesumer Heerstrasse 42-44  
D-28717 Bremen

Geschäftsführer  
Bernhard Kaufmann

Volksbank Bremen-Nord  
IBAN DE25 2919 0330 0106 5203 00  
BIC GENODEF1HB2

Amtsgericht Bremen  
HRB 36498 HB  
Steuernummer. 60/134/19653