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To Whom It May Concern

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Attestation and Evaluation of the Internship of Alexandre Doyen

Herewith we can happily confirm that Alexandre Doyen, born April 20, 2000, from ENSSAT, France, has completed successfully his Internship with the Communication Systems Group CSG, Department of Informatics Ifi at the University of Zürich UZH, Switzerland.

He worked in the time frame of May 30, 2022, to August 26, 2022 on the topic of "Detection of Bluetooth Low Energy Trackers", within which he learned the Bluetooth Low Energy (BLE) protocol, the data analysis language R, and the network traffic analysis tool WireShark, which were all used to detect especially BLE-based tackers around users. These devices did encompass trackers such as Apple AirTags. Since these trackers are very small and could be placed hidden in peoples' bags, means to detect trackers around humans is essential. Additionally, humans may have to be warned in case of suspicious trackers. Therefore, Alexandre developed a Flutter application to enable users to check, if there are trackers around them.

This work was documented in a 53 pages long report and finally presented by Alexandre within the standard student presentation sessions of the CSG within a 20 min talk on August 25, 2022, followed by a 10 min Q&A session with the entire CSG attending. Alexandre successfully defended his work in technical depth and in a fully understandable manner. He did show his own work, his results achieved, and explained on which basis this can be done, will be successful, and when not.

Overall, we can happily state that Alexandre's work was guided by Katharina Müller personally in terms of technical discussions, but the main steps of this work, his solution, and options were proposed from his side. This showed a very explorative characteristic of Alexandre, scientifically interested and willing as well as successfully learning new tools and languages to tackle his tasks. Finally, it can be stated that Alexandre improved extensively his oral English communications (technical and day-to-day) and started to document work performed and results achieved in English, too.



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