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Letter of Reference for Sebastian Thomas Thekkekara

Mr. Sebastian Thomas Thekkekara, born on 05.02.1994 in India, worked at Motius GmbH as an intern in the area of electrical engineering for two technical development project from September 19th 2018 to December 21st 2018.

Motius is a German R&D company. Our vision is to realize the disruptive potential of new technologies and talents during every tech cycle. That is made possible by our unique structure. Motius is based on an interdisciplinary pool of young elite Tech-Talents, academic researchers and experienced engineers from leading universities. Combined with an experienced core-team, Motius and its partners develop the products of the future in areas like mobility, smart city/living, Big Data, FinTech, Digitization, etc. with technologies including AI, AR, VR, 3D-Printing, IoT Tech and Blockchain among others. Those areas and technologies might be the current focus, but through its structure, community and tools, Motius keeps pace with technologies yet to come. Motius is currently based in Munich, Dubai and Stuttgart...and is expanding.

Specifically, the following areas of work made up the main part of Sebastians' tasks:

Project 1

- Teardown, documentation, and testing of various smart light products in the market - Philips Hue Go, Roome Mini, Xiaomi Yeelight Candela, Roome Mini Plus, Netatmo
- Analysis of Modern Communication Protocols like BT 4.0, Mesh, Zigbee
- Research of Microcontrollers - Nordic NRF52840, Silicon Labs CC2652R, STM32WB



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- Research of Touch Technologies – Electric Paint, Flick, Touch Board/Proximity Board
- Research and selection of Indoor Air Quality sensors
- Design, development, and Testing of with Technical Specialist
- Complete PCB Design of the above circuit in Upverter

Project 2

- Research of different sensor technologies that could be used for the prototype such as capacitive sensors, inductive sensors, hall effect sensors, DMS sensors, optical sensors and load cells.
- Analysis of positions of different types of sensors

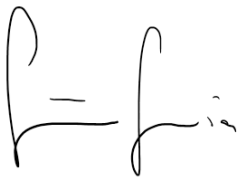
Sebastians' competence and ability to learn quickly has helped him master his duties and challenges. He worked independently, effective and diligently. He also promoted collaboration and worked well with his teammates.

Furthermore, Sebastian has proven his ability to analyze problems and to develop suitable methods of resolution as well as to convert his ideas into adequate solutions. He also remained calm and reflective under pressure. His foresight and organized way of working always delivered reliable results.

Sebastian completed all the tasks assigned to him to our fullest satisfaction. His behavior towards supervisors, colleagues and externals was impeccable.

Sebastian leaves our company after the completion of his internship. We thank Sebastian for his valuable contribution and wish him all the best and success for the future, both professionally and personally.

Kind regards,



Sören Gunia, Human Resources Director & Co-Founder