**TO: Fardin Ahsan**

**SUBJECT: INTERNSHIP APPOINTMENT LETTER**

**Dear** **Mr. Fardin**,

Software AG is pleased to offer you an educational internship opportunity as an Internet of Thing and Analytics Project Intern. You will report Mr. Cliff Wachiuri – Solutions Architect – IoT and Analytics. This position is in Dubai-United Arab Emirates.

The Internship duration will be between **1st June 2021** and **30th September 2021**

**Aim of Internship**

The fundamental aim of this internship is to enhance both soft and hard skills by working in a fast-paced growing company environment and contribute to the organization’s success. The core objectives of the internship are:

* Work in a multidisciplinary team,
* Advance their knowledge in digital transformation technologies and follow engineering design processes to implement a use case.
* Being able to assess customer requirements, incorporate engineering specifications, evaluate concepts, resolve major technical hurdles, and employ rigorous engineering principles to design a prototype which is fully tested and documented by the end of the course.

**Basic Duties and Responsibilities**

* Understanding how to build a solution incorporating sensors, actuators and microcontrollers.
* Working effectively following standard project management methodologies, such as agile.
* Designing and implementing protocols to enable communication between various devices
* Connecting, managing and controlling devices from an IoT platform in the cloud.
* Creating dashboards to deliver insights about IoT Data, such as charts and VR visualizations.
* Understanding the data science/ machine learning process, which will lead to implementation of an AI Algorithm on IoT Data.
* Building an inter-departmental IoT showcase project

**Engagement Process**

Students will meet for 3 hours every week to discuss topics related to the technical implementation, literature published and 3rd party product training. Students will meet with me once every two weeks to discuss progress on achievement of milestones. Students are expected to meet regularly with the 3rd party industry partners to receive training and discuss requirements and use case implementation.

This Coop will be focused on the use of the RIT Dubai DT Lab infrastructure and students will be required to liaise with staff as required for the implementation of the work.

Seminars on the special topics needed to support the outcome of this course will be arranged through online resources or presentations from specialists. Announcement of these sessions will happen during the semester and will be planned on a needed basis.

**End of Internship**

At the end of this internship, the student should:

* Gain new knowledge on technologies related to digital transformation including AI, IoT, microcontrollers and data analytics
* Successfully Integrate theory from a broad range of courses, laboratory exercises and co-op experiences to the creative solution of an engineering design problem
* Complete an IoT showcase project on time ahead of GITEX 2021
* Present the showcase project during GITEX
* Be able to pitch the solution to a diverse group of people, such as business, technical and academia

At the end of the internship, the Company shall issue an internship certificate to you.

**Cliff Wachiuri Fardin Ahsan**

**Solutions Architect Student**