



## **CERTIFICATE**

**Date: 26<sup>th</sup> June 2021**

To,  
Mr. Karthik Gangarapu,  
S/o. Mr. Ramesh Gangarapu,  
H.no: 12-11-629/92/A, L.N.Nagar, Warasiguda,  
Near Netaji Public School, Secunderabad, Telangana- 500061

This is certify that the dissertation under the title  
**"STM-32 BASED VEHICLE DATA ACQUISITION SYSTEM"**  
is a bonafide work of

GANGARAPU KARTHIK                      1602-17-735-318

from Vasavi college of Engineering, Ibrahimbagh, Hyderabad as a part of final year project in the academic year 2020-2021 and internship of 3 months, under the guidance and super vision of Coresonant Systems Private Limited, Hyderabad.

For Coresonant Systems Pvt. Ltd.

A handwritten signature in blue ink that reads "Archana".

Archana Kanaparthi





Cisco Systems (India) Private Limited  
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13 July 2021

To Whom It May Concern:

Dear Sir/Madam,

### Internship Completion Letter

This is to confirm that Chandan Sai Prathyush Ummadi Singu was an intern with Cisco Systems India Pvt Ltd from 27 January 2021 until 02 July 2021.

Chandan Sai held the position of Technical Undergraduate Intern.

During their internship Chandan Sai worked on the project under the guidance of Manjunadh Sridharan.

Project Title: Architecting and Developing Microservices Based Applications leveraging Maglev Platform.

Project Detail: Maglev is the base platform layer of Cisco DNA Center providing many services and on top of it applications were developed in multiple languages leveraging those services.

Main Objectives Accomplished in this project were:

- Developed a MongoDB Application leveraging MongoDB Service.
- Developed an Event Bus Application leveraging Event Bus Service.
- Developed a Metrics Application leveraging Metrics Service.
- Developed a Cache Application leveraging Cache Service.

If you have any questions, please contact People Support on 000 800 040 2244 (India) or +1 408 906 1477 (Outside India).

Yours Sincerely,



**Aparna S.N**  
**People Shared Services Specialist**  
**Authorized Signatory**  
**Cisco Systems (India) Private Limited**

**Ref No: 1-7088307432**