



08.08.2018

Trichy.

To

The Project Manager,

Hitakey Infosys,

MelaChinthamani,

Tiruchirappalli,

Tamil Nadu-625002

Dear Sir/Madam,

Sub: Requisition letter for short-term project -Reg.

Greetings!

Indra Ganesan College of Engineering, Manikandam, Tiruchirappalli, Tamil Nadu was established with a noble vision of providing higher education in the field of Engineering for the student community, especially from the rural areas.

Indra Ganesan College of Engineering, Trichy is one of the institutions affiliated with Anna University, Chennai. Our institution promotes and encourages the students to undergo short-term projects to cultivate their practical knowledge to bridge the gap between industry and academic curriculum.

Students of the Electronics Communication Engineering department are willing to do short term project with the facilities available in our college. I request you to accept our request and guide our students to achieve fruitful outcomes. The goodwill of your organization is always going to add value to the student's resumes.



Dr.S.BHARATHI RAJA
PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Madurai Main Road,
NH-45B, Manikandam
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Tamil Nadu, South India

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Trichy

13.8.2018

To

The Principal,
Indra Ganesan College of Engineering,
Madurai Main Road (NH-45B), Manikandam,
Trichy - 620 012

Dear sir/Madam,

Sub: Invitation to collaborate on a Short term project endowment "Green Wi-Fi interfacing between ARM Based Application"

We are excited to accept your invitation from ECE department of Indra Ganesan College of Engineering, Trichy to collaborate with us on a short-term project on "Green Wi-Fi interfacing between ARM Based Application" in time period of two months. We believe that our combined strengths will result in a successful and mutually beneficial collaboration. Let us know your early convenient to explore the budget details to complete the "Green Wi-Fi interfacing between ARM Based Application" consultancy development. We are open to scheduling a meeting to discuss the project details in person or via a virtual platform.

For Hitakey Infosys.

With Best Regards

Managing Director



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



15.08.2018

Trichy.

To

The Project Manager,
Hitakey Infosys,
Melachinthamani,
Tiruchirappalli,
Tamil Nadu-625002

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Respect Sir/Madam,

Sub: Submission of Short-term project endowment quotation – Reg

Ref.: Your Letter Dated 13.08.2018.

We would like to thank for considering our short-term project proposal. To follow up on your letter, the ECE Department has assigned team of 3 students with Project Investigator Dr.R.Raja Mohamed to carry out the consultancy endowment for your esteemed organization. We would like to bring to your kind notice that the quotation for the consultancy endowment “**Green Wi-Fi interfacing between ARM Based Application**” and may cost Rs 97,000/-. The quotation details and time line for each stage of work is presented below.

FINANCIAL DETAILS

S.NO	DESCRIPTION	TIME DURATION IN WEEKS	COST IN Rs
1.	Circuit Design	1 Week	5,000/-
2.	Sensor purchase	1 Week	40,000/-
3.	Development Phase	2 Weeks	25,000/-
4.	Product Testing and Delivery	1 Week	24,000/-
5.	Training and Documentation	1 Weeks	3,000/-
Total		6 Weeks	97,000/-

We commit to provide technical assistance from our end to ensure successful completion of project with prompt delivery and we are looking forward to your kind consideration of our consultancy endowment proposal. In this regard, we request you to contact us with any queries about the design and delivery of the project.

Project Investigator

[**Dr.R.Raja Mohamed**]

Madurai Main Road,
NH-45B, Manikandam
Tiruchirappalli – 620 012
Tamil Nadu, South India



Dr.S.BHARATHI RAJA
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24.08.2018

Trichy.

To

The Project Manager,
Hitakey Infosys,
Melachinthamani,
Tiruchirappalli,
Tamil Nadu-625002

Respect Sir/Madam,

Sub: Submission of Short term project endowment- Reg

Ref.: Your Letter Dated 17.08.2018


We are glad to let you know that the project "Green Wi-Fi interfacing between ARM Based Application" has been successfully completed. We wish to implement the same at your concern. In this regard, our team members will implement the successfully completed error free project at your organization in your convenient date.

Kindly make arrangements and expecting your co-operation.


Project Investigator
[Dr.R.Raja Mohamed]




Dr.S.BHARATHI RAJA
PRINCIPAL


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Trichy

17.08.2018

To
The Principal,
Indra Ganesan College of Engineering,
Madurai Main Road (NH-45B), Manikandam,
Trichy - 620 012

Dear Sir,

Sub.: Sanction of Fund for "Green Wi-Fi interfacing between ARM Based Application"-reg.

We really appreciate all of your hard work in making this consultancy endowment, and We are pleased to inform you that, we are accepted and approving a sum of Rs.97,000/- (Rupees Ninety Seven Thousand Only) towards the "Green Wi-Fi interfacing between ARM Based Application" project work. It is essential that the work is to completed within the stipulated time.

For Hitakey Infosys.

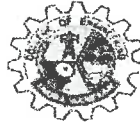
With Best Regards



Managing Director

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



10.10.2018

Trichy

UTILIZATION CERTIFICATE

Certified that the amount of Rs.97, 000/- (Ninety Seven Thousand Only) was sanctioned by Hitahey Infosys during the academic year (2018-2019), in favor of department of Electronics Communication Engineering, Indra Ganesan College of Engineering, Manikandam, Trichy for short term project endowment titled "Green Wi-Fi interfacing between ARM Based Application". The purpose of amount sanctioned has been fulfilled and delivered as per conditions of grant were satisfied.

Project Investigator
[Dr.R.Raja Mohamed]



Dr.S.BHARATHI RAJA
PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

SHORT TERM PROJECT ENDOWMENT REPORT

Green Wi-Fi interfacing between ARM Based Application

Submitted to

The Project Manager,

Hitakey Infosys,

Melachinthamani,

Tiruchirapalli,

Tamil Nadu-625002

Delivery Date: 10.10.2018

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

PROJECT REPORT

Objective:

ARM embedded processor and Wi-Fi module are used as hardware platform in this project. Data transfer over the wireless network is based on the TCP/IP protocol which is a part of the Wi-Fi module. Using this designed system an officer can monitor the personnel in the organization by opening a web page from a place that is geographically far. This system is based on the conversion of serial to wireless data which could be transferred over the wireless network to the server and also over the internet.

Project Description:

In our project data is collected automatically by avoiding human intervention and is transferred over the wireless network using the Wi-Fi technology based on TCP/IP protocol. The wireless data transmission between embedded devices and wireless monitoring system can be resolved easily and therefore the cost of networking and maintenance is minimized. In this ARM-based system the data is collected using RFID Scanner and it will be kept in the database of the host system. Thus we can avoid the wastage of memory of the embedded device. Also, RFID which is a short range device is indirectly converted into a long range device by connecting to the embedded device with Wi-Fi connectivity. A person at a remote place can access the data using a web browser, by communication with the host system which acts the server. Only a valid user can access the system which is checked by the system.

Conclusion

Data acquisition and monitoring from a geographically distant place, which needed a lot of human intervention can be made faster, reliable and less costly using the designed system. The system is compatible with IEEE 802.11n which is more throughput and range than other wireless technologies like Bluetooth. Bluetooth and Zigbee consumes less power than Wi-Fi. We can lessen the amount of power by allowing the Wi-Fi subsystem to turn-off when not in use. In order to avoid the transferring and usage of RFID card by a wrong user, we can use biometric devices.



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