

Memorandum of Understanding

Between

Alar Innovations Pvt. Ltd. and Shri Madhwa Vadiraja Institute of Technology, Bantakal

This agreement of cooperation is entered into on 1st Sept 2023 by and between

Alar Innovations Pvt. Ltd.

A company having its corporate office at 19/10, Near Petrol Pump, Alvekodi, Kumta – 581343

And

**Department of Electronics and Communication Engineering Shri
Madhwa Vadiraja Institute of Technology, Bantakal – 574115**

1. Recitals:

- i. Alar Innovations Pvt. Ltd. is in the business of IOT and Medical Electronics.
- ii. Shri Madhwa Vadiraja Institute of Technology and Management(SMVITM) is affiliated to VTU

The parties have executed an agreement of cooperation on 1st Aug 2023 and by common consent have agreed to terminate with effect from 1st Aug 2024.

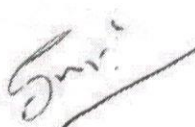

- i. This agreement shall come into force with immediate effect for the purpose of exploring the areas of cooperation benefiting both Alar Innovations Pvt. Ltd. and SMVITM.
- ii. The agreement shall terminate on 1st Aug 2024 by common consent, upon which the areas of cooperation, as set out under the said agreement, shall forthwith cease and all other duties, obligations, or rights of the parties under the said agreement shall terminate without prejudice. To the rights accrued and obligations incurred by the parties till the date of termination, which shall remain unaffected.


2. Description of the participating department:

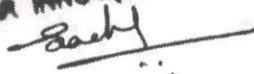
Department of ECE offers a four year B.E program in Electronics and Communication.

3. Area of cooperation under the agreement:

1. Alar Innovations Pvt. Ltd. shall depute its employees to conduct special lectures in the emerging areas of EC & IT to the Dept. of ECE, SMVITM.


Principal
SHRI MADHWA VADIRAJA

For ALAR INNOVATIONS PVT. LTD.

Director

2. Faculties of Dept. of ECE, SMVITM, and Alar Innovations Pvt. Ltd. employees shall jointly publish research papers in National and International Journals and Conferences.
3. Alar Innovations Pvt. Ltd. can help in designing the ECE curriculum as per industry needs.
4. Dept. of ECE, SMVITM, and Alar Innovations Pvt. Ltd. jointly organize/conduct student and faculty workshops/seminars/FDPs.
5. Alar Innovations Pvt. Ltd. shall help the students of the Dept. of ECE, SMVITM to undertake project Works, Internships, etc.
 - 1) Internship, where the students need to undergo a fixed duration of the training period and can work with limited guidance without affecting the company's business, is offered to students after they pass the rounds of technical interviews.

4. Product Rights:

The ownership of any product, proprietary information, processes, and utilities including any Alar Innovations Pvt. Ltd. proprietary products shall always remain with Alar Innovations Pvt. Ltd.

5. **Confidentiality:** Each party shall maintain complete confidentiality of any information of the other, disclosed during the term of this Agreement either directly or indirectly in any form whatsoever.

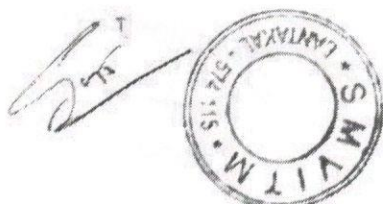
6. Neither this Agreement nor any activities described herein, shall be construed as creating a partnership, joint venture, agency, or other such relationship. Both parties agree that this Agreement represents a nonexclusive relationship between the parties, and nothing contained herein shall preclude either party from participating/initiating a similar relationship with third parties.

7. Neither party shall issue any press release, public announcement, or other such disclosure concerning this agreement without the other party's prior written consent as to such release or announcement.

8. This agreement may not be amended without the prior written consent of both parties. This agreement shall be effective for **one year from August 2023**. This agreement can be renewed based on mutual convenience.

9. **Termination:** Either party can cancel or terminate this Agreement unilaterally (and without reason), by giving an advance written notice of two months to the other.

10. **Notices:** All notices, requests, demands, and other communications under this agreement or in connection herewith shall be given to or made upon the respective parties as follows:



Prasanna
Principal
SHRI MADHWANATHA VADIRAJA
INSTITUTE OF TECHNOLOGY & MANAGEMENT
Vishwathama Nagar, Udipi Dist.
BANTAKAL - 574 115

ALAR INNOVATIONS PVT. LTD.
Sachin
Director

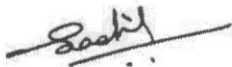
To: Alar Innovations Pvt. Ltd.
Alvekodi, Kumta - 581343

To: The Principal
Shri Madhwa Vadiraja Institute of Technology and Management
Bantakal - 574115
Udupi Dt., Karnataka

11. All notices, requests, demands, and other communications given or made in accordance with the provisions of this agreement shall be in writing by letter, fax, or email.

12. **Indemnity:** Each of the parties shall defend indemnity and hold the other party harmless from and against any claim, liability, loss costs, or expenses arising out of or resulting from the material breach of the provision therein.

IN WITNESS WHEREOF THE parties have set their hands here to on the day and the year first herein above written under their respective seal of office.



Authorized Signatory

FOR ALAR INNOVATIONS PVT. LTD

Alar Innovations Pvt. Ltd.

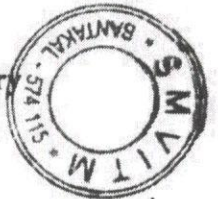
Kumta - 581343



Authorized Signatory

SMVITM

Bantakal - 574115



Dept of E&C Engg.

SMVITM, BANTAKAL - 574 115



Principal

SHRI MADHWA VADIRAJA
INSTITUTE OF TECHNOLOGY & MANAGEMENT
Vishwothama Nagar Udupi Dist.
BANTAKAL - 574 115

IOT AND DEEP LEARNING APPLICATIONS

Report on

18EC185 – Internship & Professional Practice

Submitted by

ACHINTHYA

4MW20EC004

BACHELOR OF ENGINEERING



SMVITM

Department of Electronics & Communication Engineering

**SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY &
MANAGEMENT**

Vishwothama Nagar, Bantakal – 574 115, Udupi District, Karnataka

2023-2024

1



Principal

SHRI MADHWA VADIRAJA
INSTITUTE OF TECHNOLOGY & MANAGEMENT
Vishwothama Nagar, Udupi Dist.
BANTAKAL - 574 115

Alar Innovations
DPIIT No: DIPP126915



CERTIFICATE OF INTERNSHIP

This is to certify that Mr./Mrs./Ms. /

ACHINTHYA

Student of SMVITM, Bantakal

has completed the Internship Program in **Data Analytics and LLMs**
for the period of **1 month** from **11 Aug** to **10 Sept, 2023**



Mr. Shrvan Venkatesh K

Director
ALAR INNOVATIONS
ALVEKODI
KUMTA - 591 242

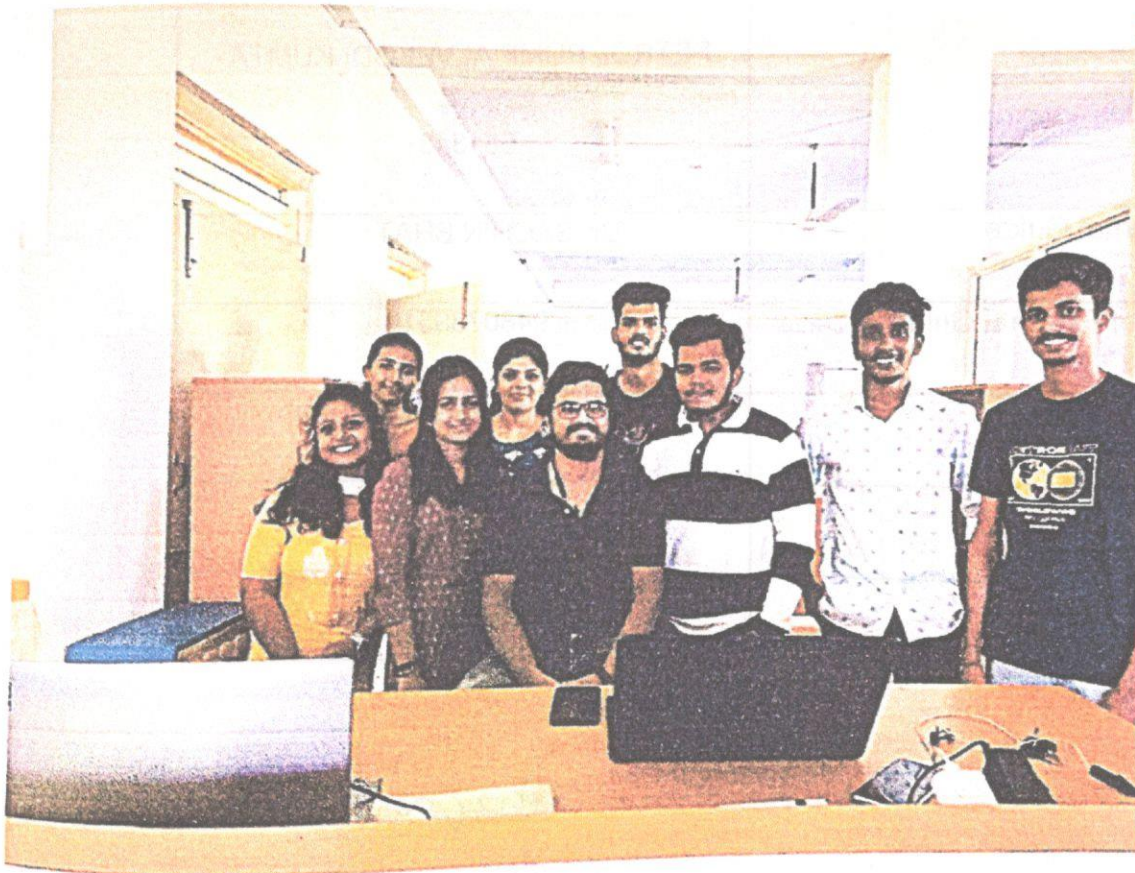
#startupindia

Principal

SHRI MADHWA VADIRAJA
INSTITUTE OF TECHNOLOGY & MANAGEMENT
Vishwothama Nagar, Udupi Dist.
BANTAKAL - 574 115

5. CONCLUSION

The wearable sensor for home health monitoring system have been designed by all the parameters such as sensor and microcontroller being carefully chosen. The sensor that has been used are pulse rate module which will measure the heart rate and the MAX30205 to detect the body temperature of the patient. As for the microcontroller, ESP32 is used to program all the system . A smaller wearable sensor device should be developed in order to make it user friendly with the patient as the user is mostly the elderly. Various sensor also can be added to monitor the physiological signal such as blood pressure, blood glucose, electro-cardiogram (ECG) and etc. All of these features can be added to make the system more reliable.



Anoop
Principal
SHRI MADHWA VADIRAJA
INSTITUTE OF TECHNOLOGY & MANAGEMENT
Vishwothama Nagar, Udupi Dist.
BANTAKAL - 574 115

SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust*, Udupi)
Accredited by NAAC with 'A' grade | Affiliated to VTU, Belagavi
Approved by AICTE, New Delhi & Recognized by Govt. of Karnataka
Vishwothama Nagar, Bantakal - 574115, Udupi District, Karnataka.



SMVITM

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

INTERNSHIP DIARY

2023-24

Name of the Student	ACHINTHYA
USN	4MW20EC004
Name of the Organization	ALAR INNOVATIONS
Address of the Organization	VIDYA NAGAR 2 ND CROSS, NEAR PETROL PUMP, ALVEKODI, KUMTA- 581343
Name of the External Guide	Dr. SACHIN BHAT
Contact Number of External Guide	9480789514
Email Id of External Guide	Innovations.alar@gamil.com
Internship Start Date	11-08-2023
Internship End Date	15-09-2023

Principal

Principal
SHRI MADHWA VADIRAJA
INSTITUTE OF TECHNOLOGY & MANAGEMENT
Vishwothama Nagar, Udupi Dist.
BANTAKAL - 574 115

DAILY ACTIVITY REPORT OF INTERNSHIP

Week Number: 1

Date	Activity
11/08/2023-16/08/2023	Introduction to Python
17/08/2023	Introduction to Data Analytics-numpy
18/08/2023	Introduction to Data Analytics-Panda's Dataframe
19/08/2023	Handson class about Python code

Week Number: 2

Date	Activity
21/08/2023	Data Visualization using matplotlib
22/08/2023	Data Visualization using seaborn
23/08/2023	Introduction to Machine Learning Fundamentals
24/08/2023	ML Model on Linear Regression
25/08/2023	Data Analytics Classification:Naive bayes classifier

Week Number: 3

Date	Activity
28/08/2023	Introduction to Deep Learning
29/08/2023	Introduction to Convolutional Neural Network
30/08/2023	Convolution Neural network
31/08/2023	Introduction NLP text Analysis
1/09/2023	NLP text Analysis:huggingface

Week Number: 4

Date	Activity
5/09/2023-6/09/2023	Introduction on Embedded IOT
07/09/2023-08/09/2023	Introduction to PCB Designing
11/09/2023-14/09/2023	Handson project

Signature of the student

Ashish

Prasanna

Principal
SHRI MADHWA VADIRAJA
INSTITUTE OF TECHNOLOGY & MANAGEMENT
Vishwothama Nagar, Udupi Dist.
BANTAKAL - 574 115



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

EVALUATION OF INTERNSBY SUPERVISOR

Supervisor's Name: Shrvan Venkatesh K Designation: Founder

Company Name: Alar Innovation Pvt Ltd

Address: Vidya Nagar 2nd cross, Near Petrol Pump, Alvekodi, Kumta-581343 Internship dates:

From 11/08/2023 to 10/09/2023

Please evaluate each intern by entering numbers from 1 to 4 for each parameter.

1 = Needs improvement. 2 = Satisfactory 3 = Good 4 = Excellent

SN	Name of the intern	Behavior of intern	Punctuality	Interest in work	Ability to analyze problems	Initiative in work	Creativity/originality	Acceptance of responsibility	Use of technical knowledge and expertise	Professional attitude	Cooperation with supervisor & co-workers	Overall Performance
1	Kazi Nabhan	4	3	4	4	3	4	4	4	4	4	3.8
2	Mahima Poojary	4	4	4	4	4	4	4	4	4	4	4
3	Anusha A R	4	4	4	4	4	4	4	4	4	4	4
4	Hitha L Shetty	4	4	4	4	4	4	4	4	4	4	4
5	Aston Antony Barboza	4	3	4	4	3	4	4	4	4	4	3.8
6	Pooja	4	4	4	4	4	4	4	4	4	4	4
7	Achinthya	4	4	4	4	4	4	4	4	4	4	4
8	Ashish Chandran	4	4	4	4	4	4	4	4	4	4	4
9												
10												

Additional comments, if any:

Place: Manipal

Date: 10/09/2023

Prasoon

Principal

SHRI MADHWA VADIRAJA
 INSTITUTE OF TECHNOLOGY & MANAGEMENT
 Vishwothama Nagar, Udupi Dist.
 BANTAKAL - 574 115

Shravan K

Signature of Internship Supervisor

Director

Alar Innovations Pvt Ltd
 Kumta - 581343



STUDENT FEEDBACK ON INTERNSHIP

Student Name: ACHINTHYA USN: 4MW20E004

Supervisor Name: DR. SACHIN BHAT Designation: FOUNDER

Company/Organization: ALAR INNOVATIONS

Address: VIDYA NAGAR 2ND CROSS, NEAR PETROL PUMP, KUMATA

Dates of Internship: From 11-8-23 To 15-9-2023

Give a brief description of your internship work (title and tasks for which you were responsible):
 In this internship we worked about IoT & Deep learning applications & hands on python ESP32 & PCB design

Indicate the degree to which you agree or disagree with the following statements.

This internship experience has:	Strongly Agree	Agree	Disagree	Strongly Disagree
Allowed me to apply classroom theory to practice		✓		
Helped me to develop my decision-making and problem-solving skills		✓		
Expanded my knowledge about the corporate world prior to permanent employment		✓		
Expanded my sensitivity to the ethical implications of the work involved		✓		
Given me a chance to improve my leadership and interpersonal skills		✓		
Helped me learn to handle responsibility and use my time wisely	✓			
Helped me discover new aspects of myself that I didn't know existed before	✓			
Helped me to develop new interests and abilities	✓			
Helped me to clarify my career goals		✓		
Allowed me to acquire information and use equipment not available at my institute		✓		

What has been the most significant accomplishment or satisfying moment of your internship?
 Hands on works on python, ML & IoT PCB design

What did you dislike about the internship?
 Nothing

How would you rate this internship? (Circle one): Satisfactory / Good / Excellent ✓

Give suggestions as to how your internship experience could have been improved.

Date: 14-10-2023

Ashy
 Student Signature

Principal
 SHRI MADHWA VADIRAJA
 INSTITUTE OF TECHNOLOGY & MANAGEMENT
 Udipi Dist.