



Bharatiya Vidya
Bhavan's

Tel : 91-22- 2670 8520
2670 7440
2628 7250
Fax : 91-22- 2670 1422

(Founded in 1938 by Kulapati Dr. K. M. Munshi with the blessings of Mahatma Gandhi)

आ नो भद्राः क्रतवो यन्तु विश्वतः।

Let noble thoughts come to us from every side

SARDAR PATEL INSTITUTE OF TECHNOLOGY

(Autonomous Institute)

Bhavan's Campus, Munshi Nagar, Andheri (west), Mumbai - 400058, India

E mail: principal@spit.ac.in website: www.spit.ac.in

Memorandum of Understanding

This memorandum of Understanding (MOU) is signed on day of 29th November 2018, between:

Zeuva Automotive Private Limited (Zeuva), B Wing, 5th Floor, Ackruti Trade Center MIDC, Andheri East, Mumbai- 93, a private limited company working on adoption of Electric Vehicle Technology and solving customer adoption problems related with this.

And

Sardar Patel Institute of Technology, (SPIT), Munshi Nagar, Andheri (West), Mumbai-58, a self-financed Engineering institute affiliated to Mumbai University and managed by Bhartiya Vidya Bhavan, a charitable trust.

Zeuva Automotive Private Limited. Background and Credentials

Zeuva Automotive is a startup with a mission to enable adoption of electric vehicle technology. Currently they are developing a battery management system including proprietary and patent pending thermal management system for light electric vehicles.

Zeuva Automotive is founded by Mr. Nishant Ranjan. Nishant has substantial experience working with early stage companies. His last role was as CTO of MyGlamm (Sanghvi Brands Pvt Ltd), a company listed on Bombay Stock Exchange. He has started and run a couple of ventures in algorithmic trading software and services. He has worked as Senior Consultant, CapGemini for clients across all developing countries. He also holds a Bachelors of Technology from Indian Institute of Technology, Kharagpur.

He is advised by Mr Arjun Malhotra, a pioneer in Information Technology industry who co-founded HCL Technologies and Headstrong. He is an eminent person on boards of many companies, institutes, etc.



Nishant

Background of Sardar Patel Institute of Technology

Sardar Patel Institute of Technology (SPIT) is an AICTE recognized college spread over a campus of 47 acres and is affiliated to the Mumbai University. It imparts various degree courses in Engineering and also certificate courses. SPIT aspires to be one of the premier R&D organization in the academic world.

It is also involved in Research and Development in the area of Embedded Systems, VLSI design, Power Electronics, Software Technology and related areas of computer science. Its focus is to help create cutting-edge Technologies and offer advanced training for students, Government and Industry.

Alliance Objective

The scope of the MoU and the roles and responsibilities of the parties of the MoU are given below

1. Zeuva and SPIT will engage mutual cooperation in Research and Development primarily in the field of Embedded Systems, Instrumentation & automation, Power Electronics, Industrial Electronics, Communication and Computing in the areas of electric vehicle technology which may include battery management system, charger, etc.
2. Zeuva intends to hire full time employees and interns from the student community of S.P.I.T. that is mutually beneficial.
3. SPIT through its Training and Placement Office or through other means (, which might be outside the SPIT student community,) will enable Zeuva to identify relevant employees and interns. Also to provide technical vetting for identified resources.
4. Relevant experts from SPIT will provide technical guidance to the employees or interns hired mentioned above on a regular basis in a timely manner.
5. Zeuva agrees to share relevant hardware / firmware design which SPIT will use solely for the purpose of guiding above mentioned interns / employees.
6. Research and new product development activities and joint research projects to be undertaken, funding for which will be provided by Zeuva, SPIT will offer infrastructure, research human resource and laboratory facilities whenever necessary for a prescribed limited period.



Current Engagement

Zeuva is currently developing of a Battery Management Systems for a Lithium Ion battery pack compatible with a standard electric two / three wheeler currently plying in India. Zeuva uses Atmel's platform for its embedded system development.

Subject matter experts from SPIT will identify 2-3 interns initially from the student community at SPIT who will have firmware and / or hardware development skills for completing the development work of battery management system. If required, SPIT might organize a session on EV business and technology for the purpose. Zeuva can also independently source such candidates. SPIT experts will vet the skills of such candidates.

Zeuva and SPIT will together set down the schedule for development of features of the project. SPIT subject matter experts will provide guidance to selected candidates on a daily basis. Toward this we will allocate a certain number of hours per month towards this activity. Zeuva will appropriately compensate for this time.

SPIT and Zeuva will work together to identify full time employees for Zeuva amongst its current and past student community. The subject matter experts will vet or advise such an individual on as needed basis.

All development work will happen out of Zeuva office space within SPIT building. SPIT experts might be needed once in a while to visit Zeuva office for providing relevant guidance.

Project Commercial

SPIT subject matter experts will allocate 300 hours for consultation and advisory services. This will be compensated on a per hour basis rate of Rs 335 per hour for a total consultation cost of **Rs 1,00,500.**

Schedule:

This is a six months project. The detail timeline for the project will be developed in co-ordination with experts.

Financials:

All the hardware cost of the prototype is born by Zeuva. SPIT Project team will provide required Human resource and consultancy services till project completion.

Payment Schedule:

Advance of **Rs 15,000** will be made at the start of the period and then based on hours completed every quarter.



SPIT PROJECT TEAM:

Principal Investigator:

(1) Dr. Rajendra R Sawant

Professor,
Department of Elect. and Telecommunication Engg.
Sardar Patel Institute of Technology,
Munshi Nagar, Bhavans Campus, Andheri (W), Mumbai-58
022-26708520/2628 7250 (Ext: 390).

Mob: 9920247002

Email: rajendra.sawant@spit.ac.in, rrs1902@gmail.com

Co- Investigators:

Dr. Y S Rao,

Vice Principal and Professor, Dept. of Electronics and Telecommunications

SPIT Mumbai



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Mutual Obligation

1. This MoU may be terminated by either party through a notice of one month. Either party will be liable to provide reason and a notice of 15 days in which period if the necessary action is not taken then either party can terminate the agreement.
2. This agreement may not be amended without the prior written consent of both the parties.
3. Neither party shall issue any press release, public announcement or other such disclosure concerning this agreement without the other party's consent as to such release or announcement.
4. SPIT will sign a Non Disclosure Agreement (NDA) necessitated to protect IPR and essential information safeguards from both sides.
5. Intellectual Property Rights: IPR titles or ownership of any products, proprietary information or technology tools, processes, utilities, and methodology including any Zeuva proprietary products or components thereof used hereunder or development of any deliverables and all new ideas, inventions, innovations, or developments conceived, development or made by Zeuva hereunder will not be transferred from Zeuva to the Institute on account of use of the same as part of any work under this MoU and shall always remain with Zeuva.
6. Zeuva will share hardware and firmware design with SPIT. SPIT will ensure that this is not shared with anyone outside the identified subject matter experts. Also in no circumstances will these designs be used for any purpose other than for providing technical guidance.



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Summary

Zeuva recognizes the significance of SPIT initiative to be the leader in the field of Education in Electronics, Communication and Computer Engineering and academia in the country. Zeuva proposes to provide an opportunity to the SPIT faculty and students to work on live projects and learn the necessary skill-set essential as per the new technological trends in the country.

This Memorandum of Understanding is intended to express the broad understanding of the parties regarding their working with each other to the extent possible for their mutual benefit.

In written whereof both parties put their hard seal on the day, month and year herein mentioned.

Date: November 29, 2018

Principal

Sardar Patel Institute of Technology,
Bhavan's Campus, Munshi Nagar
Andheri (West), Mumbai-58

E-mail: principal@spit.ac.in

Telephone: (022) 26708520 Ext: 305

Signature:

[Handwritten Signature]

Mrs. Dr. Prachi Gharpure

For SPIT, Mumbai



Director,

Zeuva Automotive Private Limited
(Zeuva), B Wing, 5th Floor, Ackruti
Trade Center, MIDC, Andheri
(East), Mumbai-93

Signature:

For ZEUVAAUTOMOTIVE PVT. LTD.

[Handwritten Signature]

Director

Mr. Nishant Ranjan

For Zeuva, Mumbai