

Manikanta Akella

Automobile Engineer

To pursue a highly rewarding career, seeking for a job in challenging and healthy work environment demanding all my skills and efforts to explore and adapt myself in different domains of automotive industry and realize my potential where I get the opportunity for continues learning.



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EDUCATION

Program/Stream	University/College	Year of study	Percentage/CGPA
M.Tech Automobile Engineering (Electric & Hybrid Vehicles)	Vel Tech University, Chennai In collaboration with ARAI, Pune	2019-2021	9.64 (1 st year)
B.Tech Mechanical Engineering	JNTU, Kakinada	2010-2014	65.51
Intermediate	Aditya Junior college, Palakol	2008-2010	82.10
SSC	Montessori's EM School, Ullamparru	2007-2008	77.17

PROFILE:

- Academician with 5 Years of Teaching experience.
- Experience in handling Lectures/projects for Under graduates.
- Love learning new things. If I don't know something I will learn it even from younger once.

PAPER PUBLICATIONS

1. Experimental Investigation on the Influence of Injection Timing with Comparative Analysis on Performance and Emissions of a DI, CI Engine fueled with Ricinus Communis Bio Diesel and Diesel Blends-International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653-Volume 8 Issue VI June 2020.
2. Adaptive Cruise Control Design of Small Electric Car using Root Locus Control -International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653- Volume 8 Issue VII July 2020.
3. Modelling of Automatic Transmission system with 12-speed gearbox configuration for passenger car. Paper submitted to **Springer publication (Scopus Index)** and **Elsevier (Scopus Index)**.
4. Construction of Energy calculation grid for a DC Motor. Paper submitted to **Springer publication (Scopus Index)** and **Elsevier (Scopus Index)**.

PROJECT WORKS:

1. Modelling and Performance of a BLDC Hub motor in Actual/Real life use.(working)

In this project, a BLDC Hub motor is modeled in MATLAB & Simulink and the experimental set up is made to find the respective performance parameters and compare this real time parameters to that of simulation results. Also, the torque of the motor is estimated without using torque sensor, which decreases the cost of the experimental setup when a motor is being undergone for testing right after fabrication.

2. Modelling of Automatic Transmission with 12-speed gearbox configuration.

A novel research was done in depth to model an Automatic Transmission in passenger car segment which provides rhythmic and smooth gear shifts and a jerk less travel.

3. Construction of Energy calculation grid for a DC Motor.

In this work, the energy utilized by a DC Motor in electric vehicle applications was calculated by constructing a grid and its corresponding optimization was studied.

4. Modelling of an Electric vehicle using FTP75 drive cycle in Simulink.

5. State of Charge Estimation of a Li-ion Battery using Simulink.

6. Effect Of Injection Timing Of Hevea Brasiliensis-Diesel-Water Emulsion Blends In A Four stroke Single cylinder DI CI Engine.

The performance characteristics of Rubber seed oil blended with diesel and water emulsion at various injection timings were conducted in a four stroke single cylinder DI CI engine and found that at 23⁰ Before Top Dead Center, the performance of bio-diesel resemble to that of Diesel.

7. Fabrication Of E-Bike.

To provide an effortless bi-cycle, a 24V, 250W motor was attached to the chain sprocket and throttled by a micro controller and ranged to 37km with a single charge.

SKILLS

- Presentation skills
- Organizational skills
- Commercial awareness
- Problem solving skills
- Inter personal & communication skills

LANGUAGES KNOWN

- English
- Telugu
- Hindi

AREAS OF INTEREST

- Electric Vehicles
- Modelling & Simulation
- Battery Technology
- Production Technology
- Thermal systems
- Braking system
- Electric motor

SOFTWARES KNOWN

- MATLAB & Simulink, Stateflow
- ANSYS
- CATIA
- MS OFFICE
- Scilab & Xcos
- Ricardo Ignite

EXTRA CURRICULAR ACTIVITY

- ✓ Successfully completed and certified 100% of the self-paced training course **MATLAB Onramp**.
- ✓ Certified in **Batteries in Electric Vehicles-Introduction and fundamentals** course offered by Udemy.
- ✓ Certified in **Autodesk Fusion 360** course offered by Coursera.
- ✓ Certified in **First step Korean** course offered by Coursera.
- ✓ Participated in the workshop on Electric vehicles organized by Skill lync and Altair on 8th August 2020.
- ✓ Attended to One-day workshop on **Practical Aspects of Finite Element Analysis** in December 2019 at Vel Tech.
- ✓ Got certificate of Appreciation in the One-day workshop on **E-mobility through Renewable Energy** in October 2019 at Vel Tech.
- ✓ Certified in **Fuel cell Technology**, a Two day **proficiency improvement programme** organized by **ARAI**, Pune in October 2019.
- ✓ Certified in **Ergonomics in Automotive Design** an NPTEL course conducted by IIT Guwahati.

HOBBIES

- ✧ Painting
- ✧ Feeling the music

- ✧ Playing Carrom
- ✧ DIY crafts

PERSONAL INFORMATION

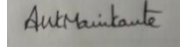
Full Name : Akella Sri Rama Krishna Manikanta
Father's Name : AVSR Subrahmanyam
Alternate Email I'd : krishnamanikantaakella@gmail.com
Alternate mobile number : 7981787270
Permanent Address : Door No 1 75, ULLAMPARRU, Palakollu mandal,
West Godavari District, Andhra Pradesh, 534260

DECLARATION

I hereby declare that the above information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

Date:

Place: Pune.



(ASRK.Manikanta)