



MAY 2016

# REWINDING PASSIONS

*A NEW AGE IS COMING*

Design Phase  
Page:2

Gallery  
Page:3

# DESIGN PHASE



## *BRAKES:-*

- ✓ *CAD model of brake pedal assembly with simulations.*

## *CHASSIS:-*

- ✓ *CAD model finalized keeping the packaging in mind.*
- ✓ *Modal analysis of frame on Ansys APDL.*
- ✓ *CAD model of test rig for measuring chassis stiffness.*

## *VEHICLE DYNAMICS:-*

- ✓ *Incorporationh of tire data in the design.*
- ✓ *Suspension components have been designed using real time recorded data and simulation techniques to ensure light weight & durability.*

## *ENGINE:-*

- ✓ *Design and simulations of intake, exhaust and cooling systems for the engine.*
- ✓ *Manufacturing processes for making mold for Intake system using 3D Printer.*

## *ELECTRICAL:-*

- ✓ *Electrical & electronic circuit of pneumatic shifter has been designed and analog filtering of the noise in the accelerometer.*
- ✓ *Reduction in battery weight and research on RTOS for faster data logging.*

## *DRIVETRAIN:-*

- ✓ *Design of electro-pneumatic gear shifter .*
- ✓ *Hardness test performed on drive-shafts.*

## *COMPOSITES:-*

- ✓ *Several types of carbon fibers (treated & untreated T700 carbon fiber, carbon coated rayon cloth) experimented for mechanical strength & rheological properties.*
- ✓ *Mock polystyrene seats prepared by vacuum bagging according to driver's comfort to enhance the car ergonomics.*

# THE X-CORNER

>> *The team kick started its journey to the tracks of Formula Bharat 2017 by securing 5th position out of 93 participating teams in the rule quiz held on 21st May, 2016.*

>> *The Intern Development Program included a summer training program in which interns & summer interns had to go through grilling sessions of training & evaluation to make it to the next phase of their induction into the team.*

>> *Working on our objective of giving back to the society, Team Srijan feels fortunate to partner with UNICEF and plans to indulge in more of social causes.*

>> *In the initial days of our current Formula season, our team was graced by invaluable contributions from some of our most esteemed alumni, Mr. Jwalant Rana (1973 batch) & Mr. Rakesh Sachdev (1970 batch). We express our deepest gratitude for being there for us at all times*



*Final CAD model of 2016-2017*



*Team Srijan bid goodbye to the Batch of 2012*

3	VIT UNIVERSITY VELLORE	Pravega Racing
4	IIT Madras	Raftar Formula Racing
5	Birla Institute Of Technology	Team SRIJAN
6	IIT Kharagpur	Team KART
7	Thapar University	Team Fateh

*Rankings of FSI 2017 Rulebook Quiz*

READY  
TO RACE

# SPONSORS

2016-2017



*Akash printing Press: Initiated as a startup model by Mr. Akash who is himself an entrepreneur, this printing press has made swift progress in the Ranchi market.*



*Swastik Auto, a pioneer dealer of TVS bikes is dedicated to continue this proud record of prosperity of TVS Motor Company by providing a hassle free service!*



*JSIA: After being formed in 1958, Jharkhand small Industries Association has been looking after the industrial growth & development of the state since then.*

## CONTACT US

ADITYA MISHRA  
(CAPTAIN)  
+91-776-182-7845

ATHAR ANWAR  
(VICE CAPTAIN)  
+91-960-891-8019

SHIVAM RAI  
(CHIEF ENGINEER)  
+91-800-222-4716

FOLLOW US ON: [WWW.FACEBOOK.COM/TEAMSRIJAN](http://WWW.FACEBOOK.COM/TEAMSRIJAN)

MAIL US AT: [TEAMSRIJAN@BITMESRA.AC.IN](mailto:TEAMSRIJAN@BITMESRA.AC.IN)

VISIT US AT: [WWW.TEAMSRIJAN.COM](http://WWW.TEAMSRIJAN.COM)