

SUNDAR GOPALAKRISHNAN

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EDUCATION:

- **BE Mechanical engineering- Bharati Vidyapeeth College of Engineering, Mumbai University (2008-2012).**

Final year aggregate – 63.2 %

Overall Aggregate – 56 %

- **12th Std – Vasant Vihar high school and Jr.college, Thane (2006-2008).**

Aggregate – 60.5%

HONORS:

- Founder and Chairperson of SAE Bharati Vidyapeeth Collegiate Club for two years. (August 2010 to June 2012)
- Team leader and lead designer in ATV Projects for two years. (September 2010 to June 2012)

PROJECT WORK:

DESIGN AND MANUFACTURE OF TWO SAE BAJA ATVs AS PER SAE SPECIFICATIONS

Technical Specs

TECHNICAL ATTRIBUTES	CAR 1	CAR 2
Engine	Ape Piaggio 350cc Diesel	125cc Bajaj Discover Petrol
Power Transmission	4+1 Manual Transmission	CVT automatic
Steering	Ready-made Rack pinion	Custom made Rack Pinion
Knuckle	Standard	Custom made uprights
Track-width	60"	58"
Wheelbase	84"	74"
Top Speed	50Kmph	50Kmph
Cost	2300 USD	3800 USD

RESEARCH WORK:

DESIGN OF HYDROGEN BOOSTED GASOLINE ENGINE.

- Designed a theoretical model of Hydrogen boosted gasoline engine using Turbo-Steamer, Capillary condensation pipe made of MCM-41, electrolysis cell and Dual Fuel Carburetor.
- The Turbo-Steamer converts exhaust heat energy to electrical energy with an efficiency of 35% after which the exhaust gas flows through capillary condensation pipe. Liquid water is generated from water vapor present in exhaust gases by capillary condensation. This water undergoes electrolysis using electrical energy generated from Turbo-Steamer. To enable both hydrogen and gasoline with respective air-fuel ratio we designed one of a kind Dual Fuel carburetor.
- Estimated fuel Efficiency increased by minimum 2%.
- The research paper is sent to SAE World Congress 2013 where abstract is selected and manuscript is still under review.

DESIGNING SOFTWARES:

- Pro-E
- CATIA V5 R17
- ANSYS

ACCOLADES:

- Received a certificate of appreciation for my project on ATV and being 1st team from 150 institutes under Bharati Vidyapeeth to have designed and manufactured a fully functional automobile.
- Awarded best final year project in year 2011-12 from our college.

HOBBIES:

- Listening to music
- Playing Chess

- Surfing on Internet