

Rineetha Charles

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Education:

August 2012- May 2016 Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, BTech Mechanical Engineering Design and Manufacturing.

- **Relevant Modules*** : Basic and Advanced Thermal Engineering, Fluid Dynamics, Heat transfer, Strength of materials, Design of machines and mechanisms, Advanced mechanisms, Green Energy and Product Design, Product Design, Concepts of engineering design, Simulation and part modelling using Autodesk Inventor, Finite Element Analysis, Electronic circuit Design, Electrical Drives, Microprocessors and Micro controllers and Programming using Verilog.
- **Achieved CGPA**** : 8.35
- **Skills acquired:**
 - Design, part modelling and simulation of models using Autodesk Inventor, Sketchbook Pro and designer.
 - Working with microprocessors and micro controllers 8085, 8086, 8051. Coding a micro controller using Verilog.
 - Working with the mechanical equipment like motors, milling machine, drilling machine, lathe, hardness testing machine, tensile testing machine.
 - Completing multiple deadlines on time with the best performance possible.
 - Leadership qualities, team management, self-confidence and organizing both technical and cultural events.
 - Working under pressure, multitasking and responsibility.

(* indicates modules till the sixth semester, ** CGPA by the end of 5th semester)

Year of study	Board	Percentage achieved
2010- 2012	Andhra Pradesh Board of Intermediate Education	97%
2009-2010	State Board of Higher Secondary Education	93.6%

Project Experience

- **Product design project*** of Designing, prototyping and Building a working model of automated aerators used in fisheries.
 - Knowledge on the measurement of DO content in water
 - Interfacing ADC with the aerators.
 - Programming and building of ADC.
- **Project*** to Design a measuring instrument to measure the Vacuum Pressure.
- **Green Energy and Product design project*** to design a product which is used to convert heat into mechanical energy, based on its thermal modelling for energy efficient use.
 - Knowledge of the products which convert heat energy to mechanical energy.

- **Thermal Engineering*** project to design a working model of Cross flow Heat Exchanger.
 - To design a cross flow Heat Exchanger and to measure different parameters related to it.
 - Knowledge on the types of Heat Exchangers and the related parameters.
- **Engineering Simulations project** on detailed part modelling, simulation and working of Relief Valve in Autodesk Inventor.
 - Knowledge of all the commands, modules and simulation tools in Autodesk Inventor.
 - Knowledge of the different Isometric views and Projections.
- **Concepts of Engineering Design project.**
 - Redesign, Design and Conceptualize different products using well known methods of TRIZ, Ergonomics.
 - To make a design model of all the competitors in the field of study and the probability of the product to be successful in the market.

(* indicates on-going projects)

Experience:

- August 2014- April 2015 **Core of Mechanical Club** in our college.
 - Responsible for organizing various events related to Mechanical engineering.
 - Helping the students in our college with the concepts related to Mechanical engineering and encouraging them and guiding them to participate in different events conducted in other colleges.
 - Allotting tasks to the coordinators and maintain deadlines.

Skills acquired:

✓ Responsibility, self-motivation, Taking initiative, Event managing, Planning and scheduling.

- August 2014- April 2015 **General Cultural club core** of the Cultural club in our college.
 - Organizing various cultural events in the college.

Skills acquired:

✓ Team Work, Budget planning, Brain storming for creative ideas.

- August 2013- April 2014 Worked as **Cultural coordinator** in our college.
- August 2012- April 2013 **Social Service Group Volunteer** in our college.
- December 2012- March 2013 Worked as **Quality Management service volunteer** for our college fest, Samgatha.
- July 2009- May 2010 **School People's Leader** in our School, LRG High School, Anantapur.

Achievements:

- Won Third Prize in the national level in The National Science Seminar, 2007 held in Kolkata.
- Went up to State level in The National Science Congress, 2008 held in Vijayawada.
- Went up to State level in the National Science fair held in 2007 and 2008.
- Participated and won in various cultural events and Drawing Competitions.
- Participated and won in Essay and Elocution Competitions held in School.

Software Skills	Interests
C programming, MATLAB	Playing guitar
Sketchbook PRO, Designer	Dancing
Autodesk CAD, Inventor	Reading books
Photoshop and other editing software	Singing

References: References will be provided upon request.